TIROS VII
RADIATION DATA CATALOG AND USERS' MANUAL

Volume 4
(October 1, 1964 - June 19, 1965)

GODDARD SPACE FLIGHT CENTER
GREENBELT, MARYLAND

TIROS VII
RADIATION DATA CATALOG
AND
USERS' MANUAL
VOLUME 4

OCTOBER 1, 1964 JUNE 19, 1965

by
Staff Members
of the
Laboratory for Atmospheric and Biological Sciences
Goddard Space Flight Center
National Aeronautics and Space Administration

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FOREWORD

The quantity of radiation data acquired from TIROS VII over a two year useful lifetime exceeds several times over the total quantity acquired from any of the previous TIROS radiation experiments. As a result, the TIROS VII Catalog-Manual is being published in four volumes. Each volume of this series contains time-dependent information for the specific time period covered by the Volume concerning radiometer response patterns, possible corrections for instrumental degradation, the Index of Final Meteorological Radiation Tapes, and Subpoint Track Summaries. This, the fourth volume, covers the time period October 1, 1964 to June 19, 1965, and also contains degradation corrections for channels 1, 2, 3, and 5. The first volume of this Catalog-Manual also contains general discussions about the nature of the experiment, the calibration, and the processing, coverage and documentation of the data. The third volume also contains discussions about asymmetrical degradation and the channel 1 (15 micron data) degradation corrections from launch.

Many members of the Laboratory for Atmospheric and Biological Sciences (formerly the Aeronomy and Meteorology Division) contributed to the success of the TIROS VII medium resolution radiometer experiment.

The task of obtaining and assembling the information contained in this manual into written form suitable for publication was largely accomplished by the following persons:

Mrs. Musa Pasternak, Editor
Mr. W. R. Bandeen
Mrs. Ingrid Strange
Mr. Frederick Woolfall

The efforts of these individuals are hereby acknowledged.

The preparation of the material presented in Appendix B was accomplished mainly through the effort of Mrs. Jo Anne Eller.

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LIST OF FIGURES

Figures 1 to 81 and B1 and B2 are found in Volume 1; Figure 82 is in Volume 2; and Figures 83 to 89 and revised Figure 70 are in Volume 3. Of these, only the figures containing time-dependent information are listed below.

I. INTRODUCTION

This volume contains time-dependent information for the period October 1, 1964 to June 19, 1965 concerning radiometer response patterns, the Index of Final Meteorological Radiation Tapes, and Subpoint Track Summaries. This volume also contains degradation correction nomograms for channels 1, 2, 3, and 5. General discussions of the experiment, the calibration of the radiometer, and the processing, coverage, and documentation of the data are found in Volume 1. General discussions of degradation are found in Volumes 1 and 3.

VI. PRE-LAUNCH AND POST-LAUNCH PERFORMANCE OF THE RADIATION EXPERIMENT

6.2 Post-Launch Behavior of the Experiment

Channels 1, 2, 3, and 5 continued to degrade, and channels 1 and 2 exhibited an increasingly greater degree of asymmetrical degradation. This degradation is seen in the quasi-global averages for floor, wall, and both sensors (Figures 70, 71, 73, 74, 83, and 84).

The degradation nomograms for channels 1, 2, 3, and 5 shown in this volume were constructed using the quasi-global averages as explained in Volume 3.

From Equation (23) for $\overline{W}'$ in Volume 3, when both the floor and wall sensors view space, $\overline{W}^F \simeq \overline{W}^W \simeq 0$, and the space-viewed level is given by $(C^W - C^F)\overline{W}^S$. As the difference between C^W and C^F increases with days after launch, the space-viewed level rises. This happens for channels 1, 2, and 4, as shown in Figure 68.

The increase in the channel 2 space-viewed level required a raising of the channel 2 digital number representing the space-earth discriminant to 25 after January 1, 1965 from a digital number of 20 before that time. (Three or more consecutive channel 2 radiation values whose digital numbers are less than or equal to the space-earth discriminant are considered to be space-viewing. The relationship between digital number and T_{BB} for channel 2 is shown in Figures 26 to 32. For example, at $T_C = 12°C$, a digital number of 25 corresponds to measured channel 2 floor and wall temperatures of 217°K and 203°K respectively as seen in Figure 28.) Since the computer now has to consider a higher radiation level as the space-earth discriminant, it is possible for it to confuse low earth radiation values within a swath obtained by the wall sensor with the space-viewed level. Thus, one actual swath may be divided into two false swaths, with the mislocated data points in these two swaths being negatively tagged. Hence, one should be cautious in using negatively-tagged data in a computer listing.[39]

The theory predicts that asymmetrical degradation (AOD) causes negative-going pulses to appear in the analog signal. Apparently, these negative-going pulses were too small to be detected throughout most of the history of useful TIROS VII data, but as the AOD increased, they became evident. They became approximately 4 cps by November 14, 1964 for channel 1 and 2.5 cps by May 19, 1965 for channel 2.

Negative-going pulses would not be present in the short wavelength channels even if AOD should occur because $\overline{W}_S$ is essentially zero within the spectral response of these channels. To ascertain that AOD has definitely occurred in the short wavelength channels, it is necessary to view the same target through both sides of the radiometer. From February 15, 1965 to February 22, 1965, the spin vector of TIROS VII was torqued some 105° in such a manner as to allow the comparison of floor measurements over the Sahara Desert before the torquing with wall measurements taken after the torquing. The results for the wall and floor measurements of channels 3 and 5 vs scattering angle are shown in Figures 90a and 90b. These figures show that the wall side measurements for channel 3 are approximately 2.5 times larger than the floor side, and the channel 5 floor and wall values were approximately the same.

There is some uncertainty in the actual

amount of AOD present in channel 3 at this time because, after the initial tc·quing had been accomplished, T_C fell to −7°C (below 0°C, the lowest value for which a calibration run had been made in the laboratory).

Also, there is not a one-to-one correspondence between the component angles of incidence, reflection, and azimuth making up equivalent "scattering" angles. However, at least part of the 2.5 factor apparently can be attributed to AOD occurring in channel 3.

As in the previous volumes, an unfavorable satellite-sun geometry existed for several days at a time in the period covered by Volume 4, permitting the direct rays of the sun to impinge upon the sensors from the wall direction momentarily once during each satellite rotation. (See Section 6.2 of Volume 1 for a discussion of this phenomenon.) There were eleven periods during the time interval covered by this volume when such a unfavorable satellite-sun geometry occurred, viz., the periods including the orbits numbered 7120-7224 (TIROS VII days 482-489), 7631-7675 (days 516-519), 8073-8219 (days 546-556), 8464-8669 (days 572-586), 8771-8815 (days 593-596), 8959-8974 (days 606-607), 9459-9499 (days 640-642), 9586-9724 (days 648-658), 10409-10410 (day 704), 10510-10613 (days 711-718), and 10739-10784 (days 726-729).

In several orbits when there was no interference with the long wavelength channels but interference with the short wavelength channels only, the data were reduced. Data users should note that these "sun spikes" in the short wavelength channels produce erroneous values.

6.2.1 Channel 1 The corrections to channel 1 data were constructed using the $\overline{W}^i_{ave}$ values from the quasi-global average curves in Figures 70 and 83 by the method described in Volume 3. These corrections are given in the two nomograms in Figures 77a and b of this volume. The cut-off date for the usefulness of channel 1 data was determined to be November 14, 1964 at which time negative-going pulses reaching a magnitude of 4 cps were observed.

6.2.2 Channel 2 The corrections to channel 2 data were obtained using the $\overline{W}^i_{ave}$ values from the quasi-global average curves in Figures 71 and 84 by the method described in Volume 3. These corrections are shown in the nomograms in Figures 78a and b. As in Volume 3, Figure 89 gives the difference value $M=T_{SFC}-T'_{BB(SFC)}$, another indication of instrumental degradation.

6.2.3 Channel 4 The history of channel 4 data and degradation nomograms from launch until Day 249 are given in Volumes 1 and 2. Because of the subsequent erratic behavior and severe degradation of channel 4 data, their use after Day 249 is not recommended, and, hence, no further correction nomograms are given.

6.2.4 Channel 3 The correction nomogram in Figure 80 was constructed using the method described in Section 6.2.4, Volume 1, and is used in the same way as in Volume 1. The values of A^i used for the correction nomogram were obtained from the curves drawn through the quasi-global averages of Figure 73.

Since channel 3 degrades to approximately one-half of its original level by December 25, 1964, this was chosen as the cut-off date for the channel 3 correction nomogram.

6.2.5 Channel 5 The absolute magnitude of channel 5 values of Δf in Figure 68 decreased to an average of −0.5 cps. Thus the correction nomogram in Figure 81 was constructed using the new Δf value and the method described in Section 6.2.5, Volume 1. It is used in the same way as in Volume 1.

6.3 Estimate of the Accuracy of the Data

In all cases the estimates of accuracy given below apply to the midrange of target intensities. The accuracy of the thermal channels suffers additionally at very low target temperatures.

6.3.1 Channel 1 The estimated short-term relative accuracy of T_{BB} measurements from a given side (floor or wall) is ±2°K, and the estimated absolute accuracy increases linearly from ±12°K on October 1, 1964 to ±13°K on November 14, 1965 after

applying corrections from Figure 77.

6.3.2 Channel 2 The estimated short-term relative accuracy of T_{BB} measurements from a given side is ±2°K, and the estimated absolute accuracy increases linearly from ±10°K on October 1, 1964 to ±15°K on June 19, 1965.

6.3.3 Channel 4 No estimates for the period covered by Volume 4 are given.

6.3.4 Channel 3 and Channel 5 The estimates of the relative and absolute accuracies of channel 3 and 5 data have not changed from Volume 1.

6.4 Comments on Significant Engineering Aspects of the Experiment

The spin vector of TIROS VII was torqued about 105° during the period February 15-22, 1965, to permit the comparison of floor with wall sensor data over the sun-lit Sahara (See Section 6.2). The torquing maneuver changed the astronomical declination of the spin vector from +23° on February 15, 1965 to −65° on February 23, 1965. Before the torquing maneuver, the floor and wall measurements were predominately taken at day and night local time respectively. The torquing increased the minimum satellite nadir angle (angle between the spin axis and the orbital plane) from 17° to 56°, as listed in Appendix A. For an orbit having a 56° minimum nadir angle, most of the satellite data are in the alternating mode (Figure B2) and each of the floor and wall directions acquires both daytime and nighttime data on a more nearly equal basis than it usually does. Thus, for about a week after torquing (February 23 - March 1, 1965) the wall sensor viewed predominately the daytime Sahara desert in place of the floor sensor. The interchange of floor and wall values with time obviously influenced the magnitude of the average regional uncorrected measurements. As listed in Appendix A, the minimum nadir angle decreased from 56° to 22° by March 7, and the predominant day-floor, night-wall pattern in the measurements returned once again.

CONCLUSIONS

The major limitation of the TIROS VII medium resolution radiometer experiment is the uncertainty in the absolute values of the measurements, resulting from the degradation of the radiometer response, and, also, from electronic degradation which, for the first time, was conclusively detected in TIROS VII. The degradation corrections given in Section VI can serve as a guide for interpreting the data in terms of absolute values. However, it must be emphasized that these corrections are only our best estimates, based upon certain simplifying assumptions, of the effects of a complicated degradation mechanism which we do not yet fully understand, and that the measurements thus corrected may still contain appreciable uncertainties.

Because of the extended lifetime of the radiometer, the potential of the TIROS VII radiometric data for climatological studies is significantly greater that it was for previous TIROS satellites. In utilizing the measurements over extended periods, however, channel 2 and 5 data should be used in lieu of channel 4 and 3 data, respectively, wherever possible because of the superior stability characteristics of the former two channels.

For studies involving relative measurements over a short period of time, data from channels 4, 1, and 3 are considered to be valid for time periods from launch to February 23, 1964, November 14, 1964, and December 25, 1964, respectively. For such studies, data from channels 2 and 5 are considered to be valid throughout the entire two year period covered by Volumes 1 through 4.

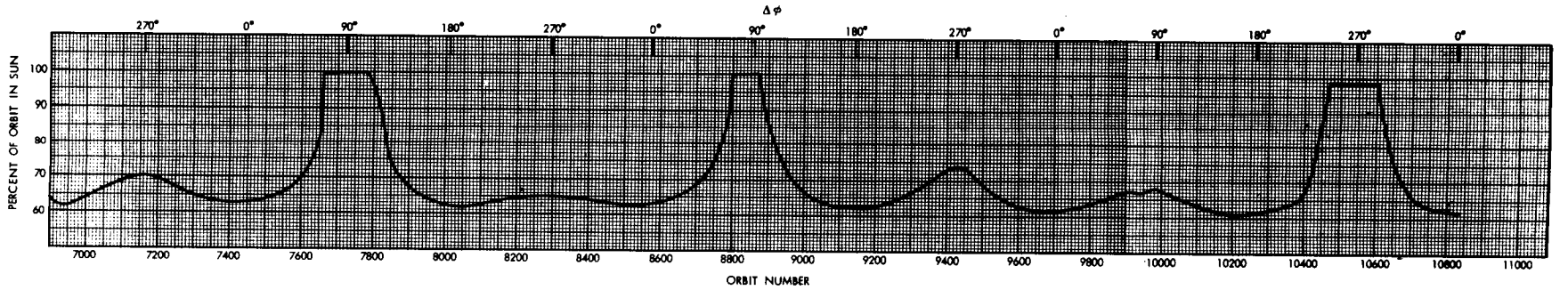


Figure 16a—Percent of the orbital period which the satellite spends in sunlight versus orbit number. Also shown on the upper abscissa is $\Delta\phi$, the right ascension of the sun minus the right ascension of the orbital ascending node.

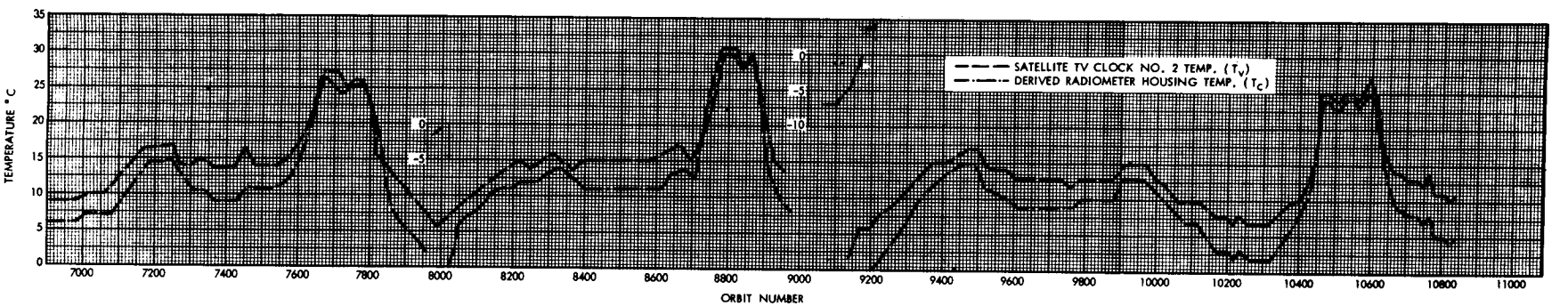


Figure 16b—Television clock number 2 temperature (T_V), and derived radiometer housing temperature (T_C) versus orbit number. Telemetry of the "housekeeping information" for the radiometer ceased at orbit 1276, after which T_C was derived from T_V. In orbits 7960 to 8000 and 9060 to 9170, T_C and sometimes T_V dip below 0°C. A separate temperature scale drawn beside the region of the dip is then used for the values below 0°C.

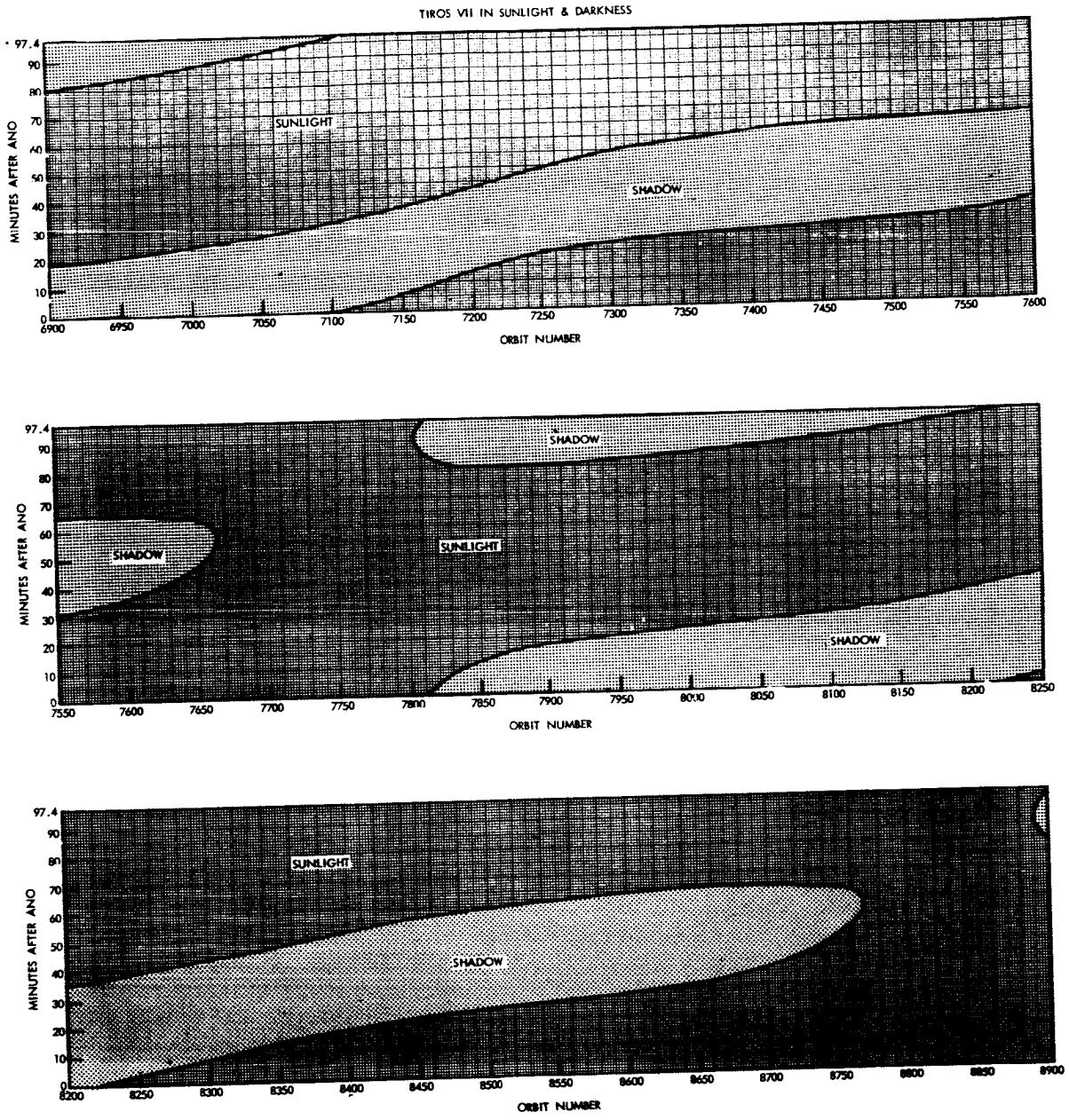


Figure 18—Portions of the 97.4 minute orbital period when the satellite is in sunlight and in the Earth's shadow, expressed in minutes after the ascending node, versus orbit number. Figure 18 is continued on next page.

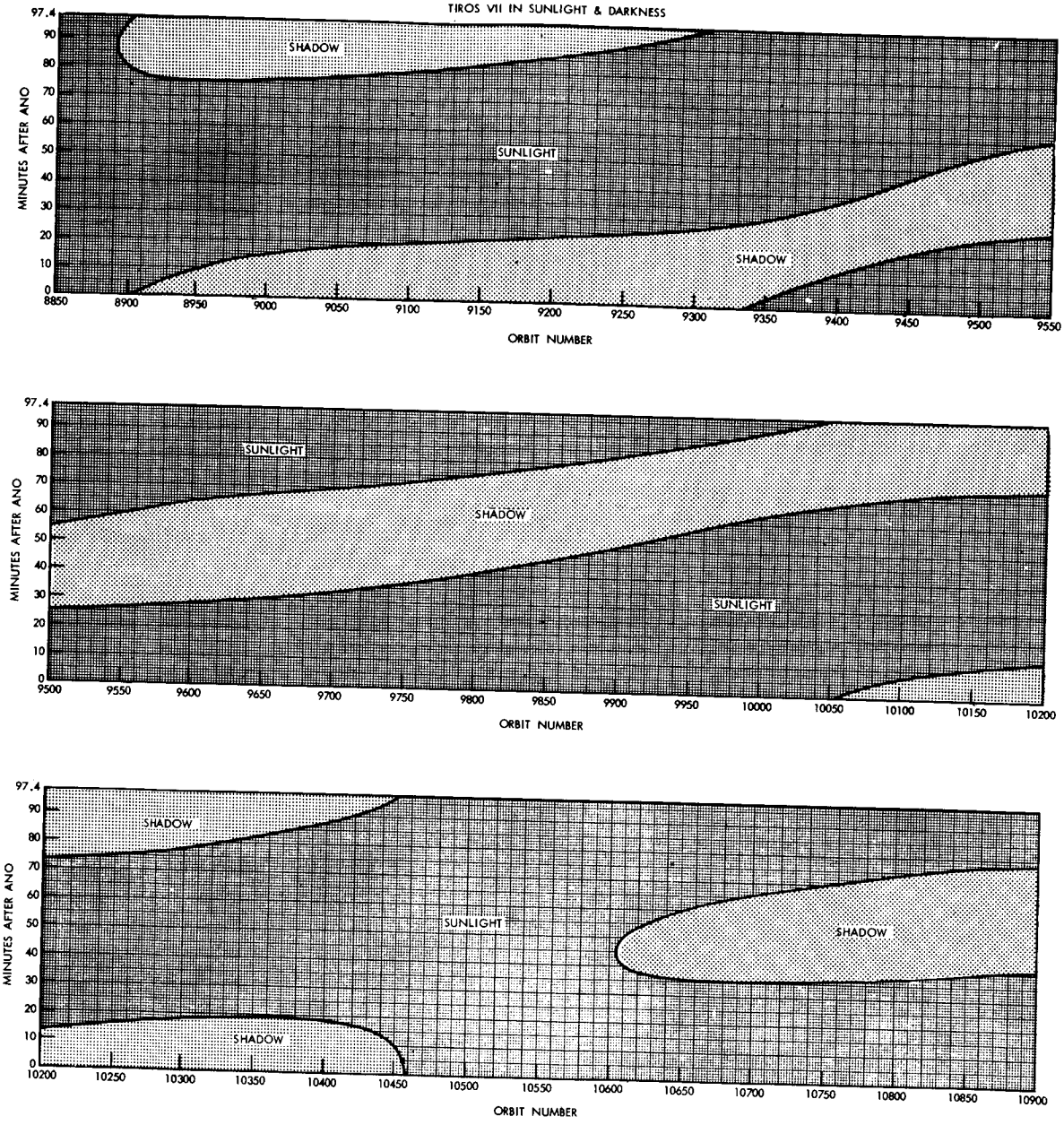


Figure 18—Portions of the 97.4 minute orbital period when the satellite is in sunlight and in the Earth's shadow, expressed in minutes after the ascending node, versus orbit number. Figure 18 is continued from preceeding page.

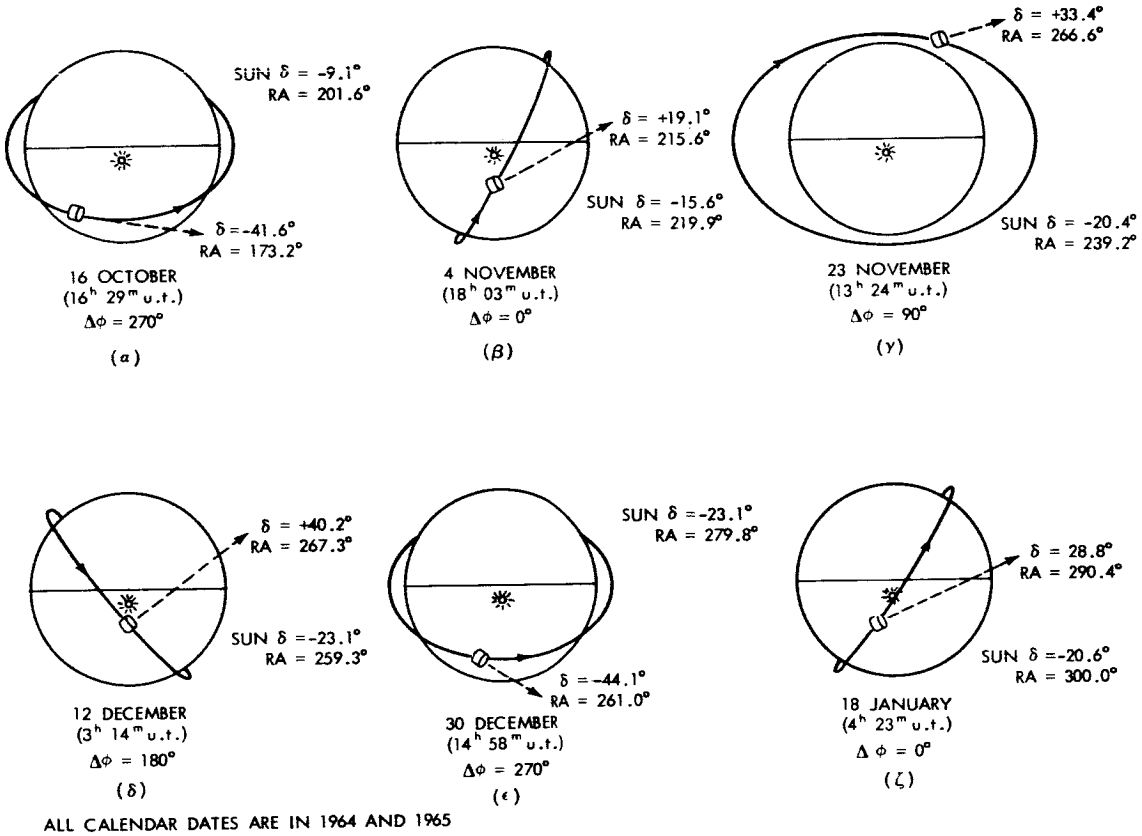


Figure 66—(α, β, γ, δ, ε, ζ)
Heliocentric views of the Earth and the precessing TIROS VII orbital plane. The celestial coordinates of the sun and the satellite spin vector are shown for each selected day. The time is given to the nearest minute and corresponds to the given value of $\Delta\phi$.

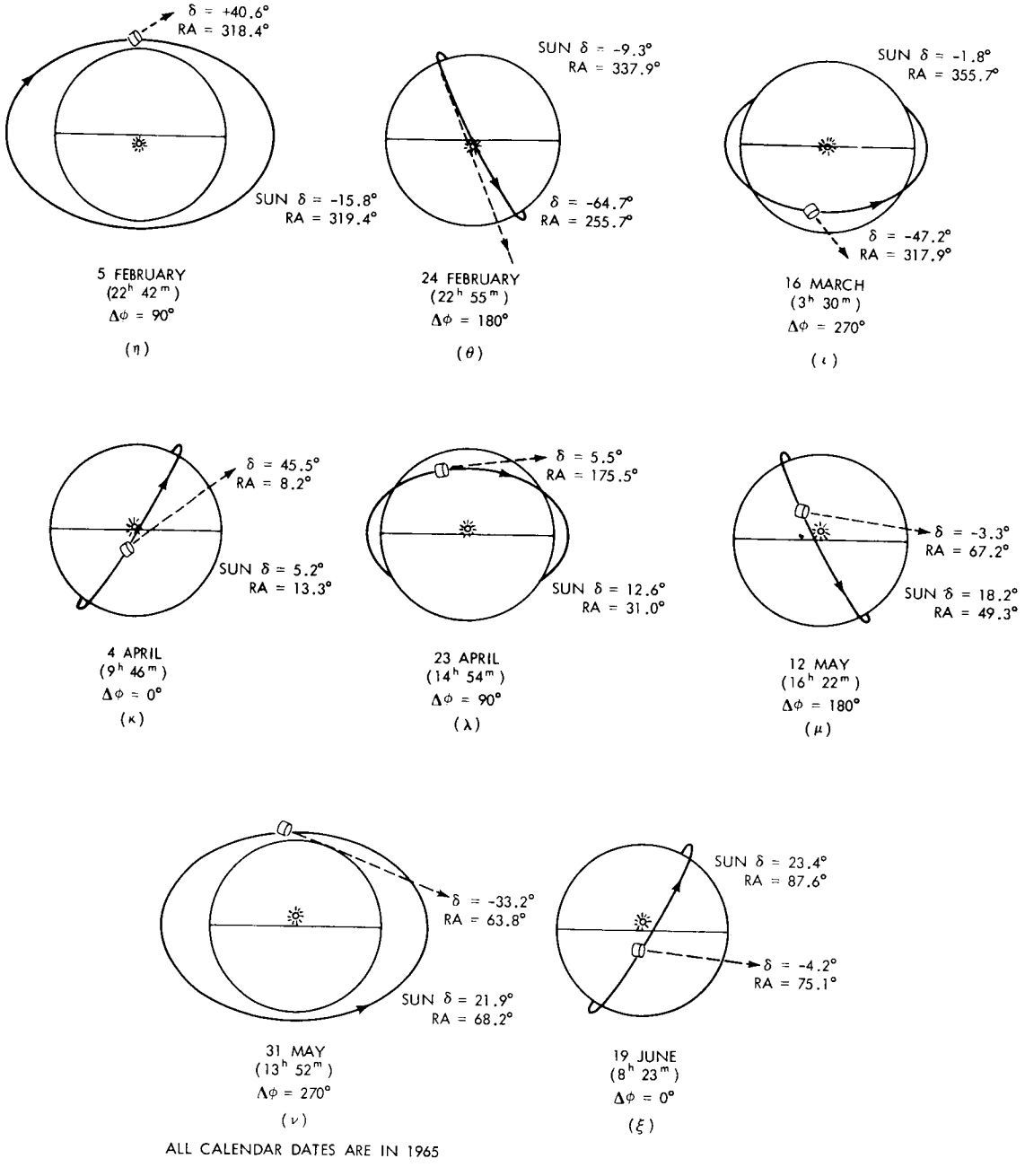


Figure 66—(η, θ, ι, κ, λ, μ, ν, and ξ)
Heliocentric views of the Earth and the precessing TIROS VII orbital plane. The celestial coordinates of the sun and the satellite spin vector are shown for each selected day. The time is given to the nearest minute and corresponds to the given value of $\Delta\phi$.

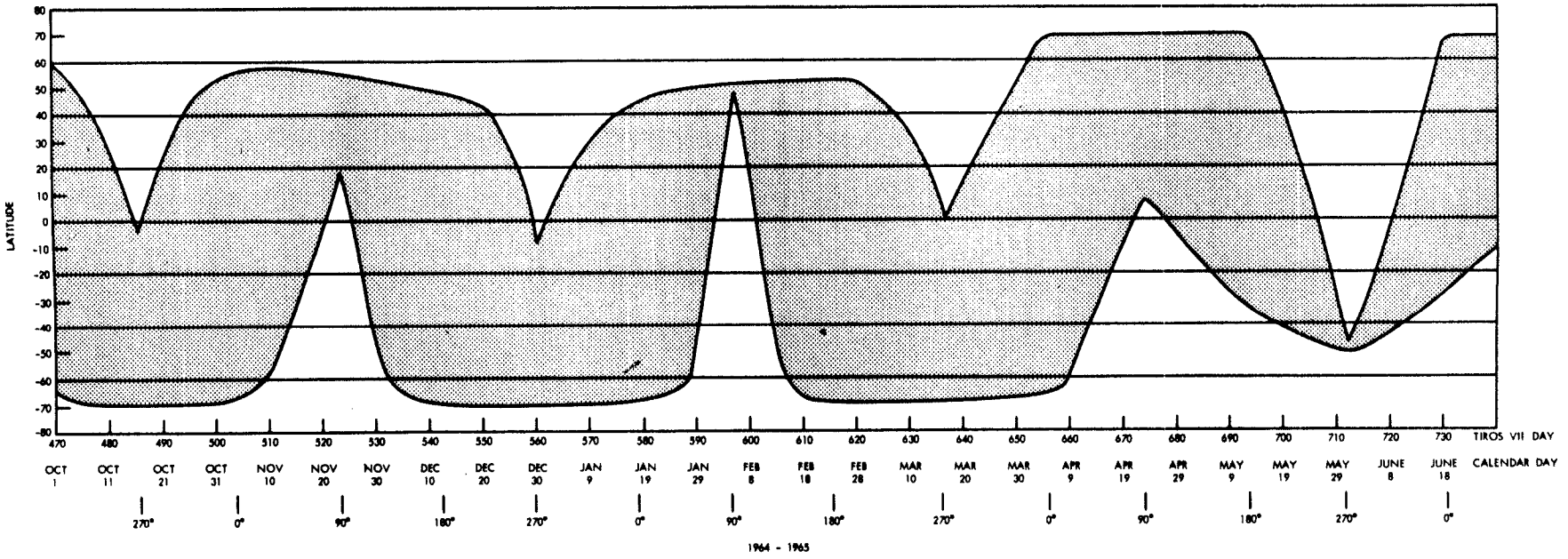


Figure 67—Solar illuminated latitudes for TIROS VII.

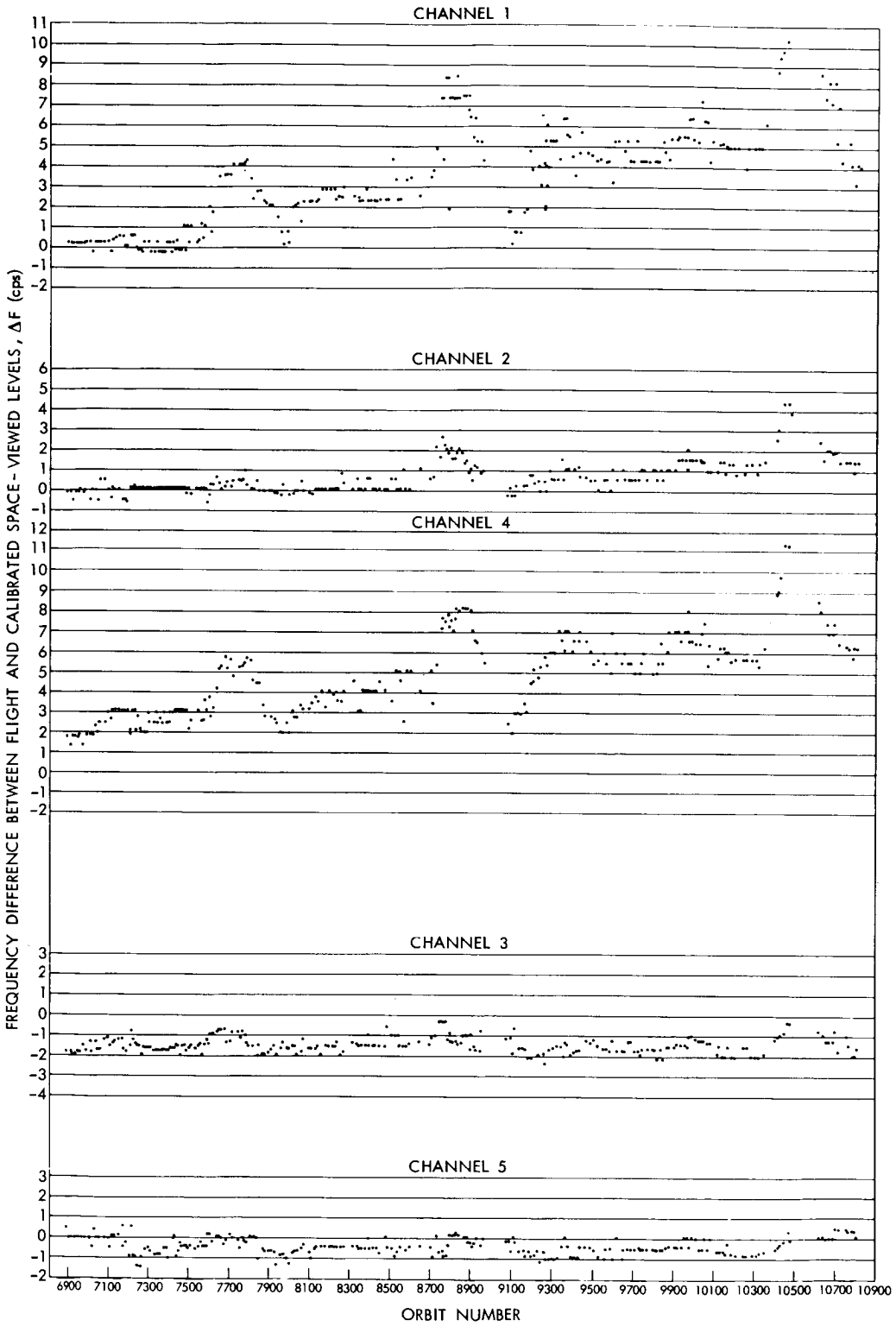


Figure 68—Frequency difference between flight and calibrated space-viewed levels vs. orbit number for channels 1 to 5.

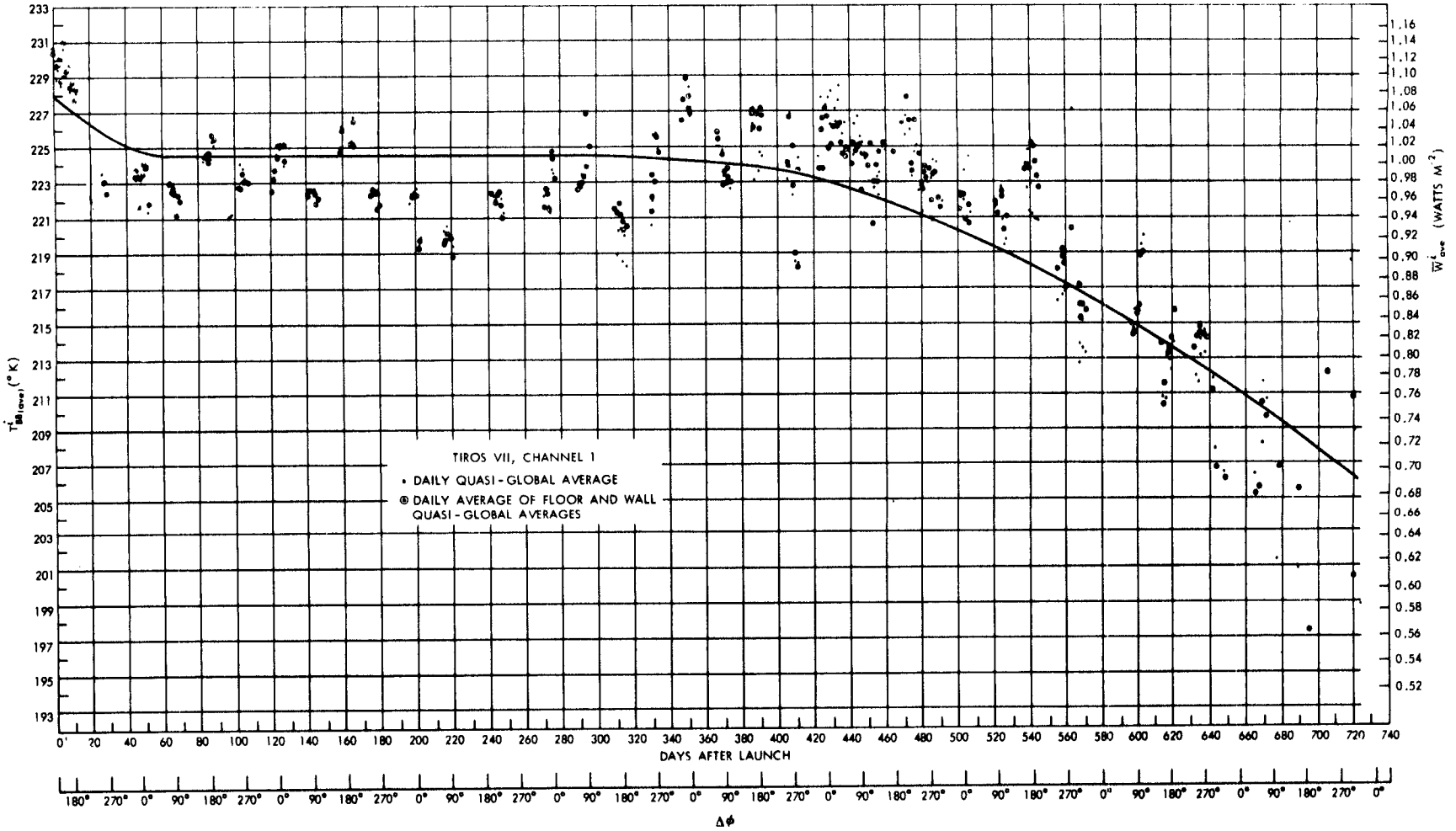


Figure 70—The average quasi-global equivalent blackbody temperature, $T^{i}_{BB(ave)}$, for channel 1 vs. days after launch. A scale for converting to $\overline{W}^{i}_{ave}$ is shown along the right-hand ordinate. Two quasi-global averages are shown for the latitudinal range 70° N to 70° S: (1) the average of all measurements both wall and floor, and (2) the average of the separate floor and wall quasi-global averages.

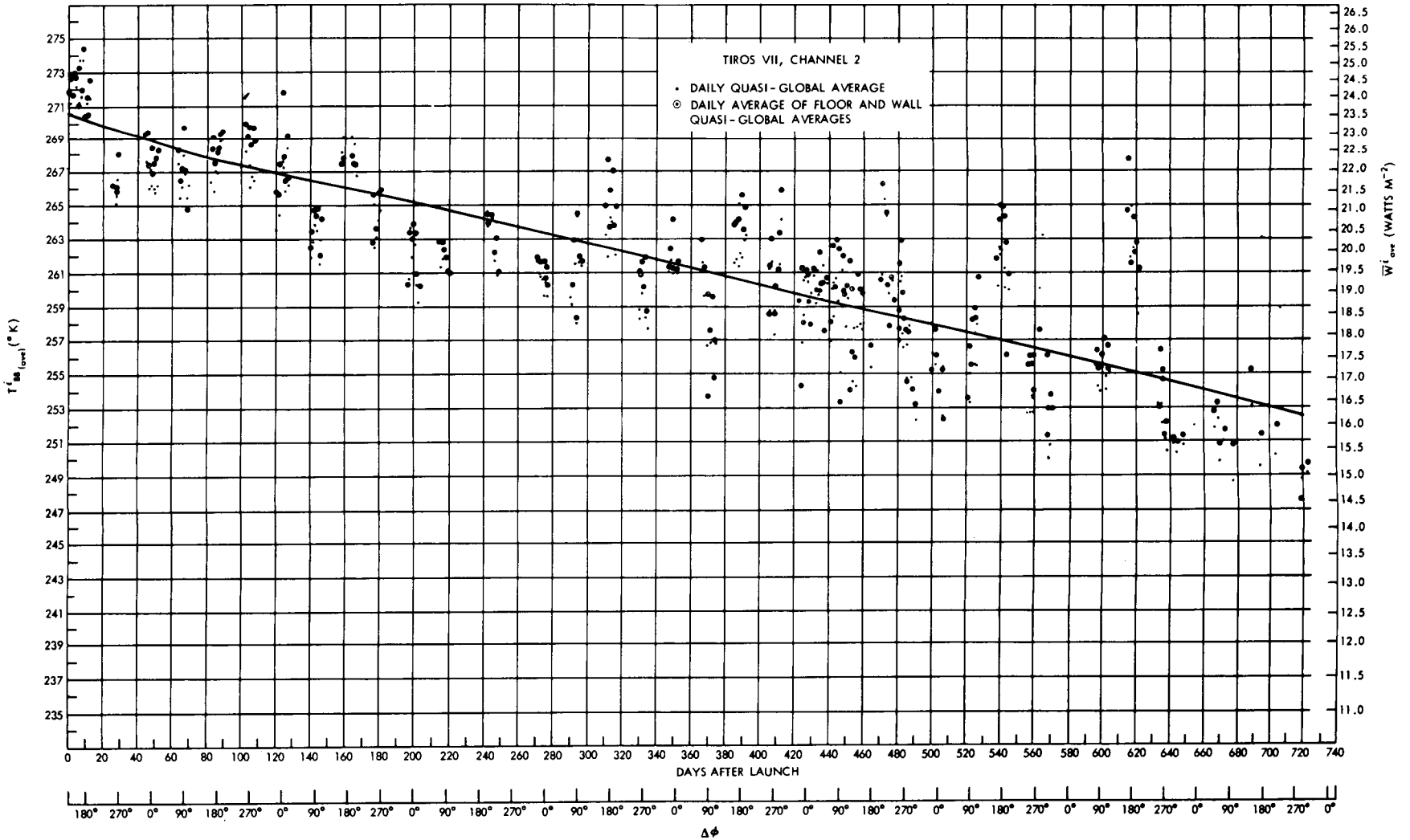


Figure 71—The average quasi-global equivalent blackbody temperature, $T^i_{BB(ave)}$, for channel 2 vs. days after launch. A scale for converting to $\overline{W}^i_{ave}$ is shown along the right-hand ordinate. Two quasi-global averages are shown for the latitudinal range 70° N to 70° S: (1) the average of all measurements, both wall and floor, and (2) the average of the separate floor and wall quasi-global averages.

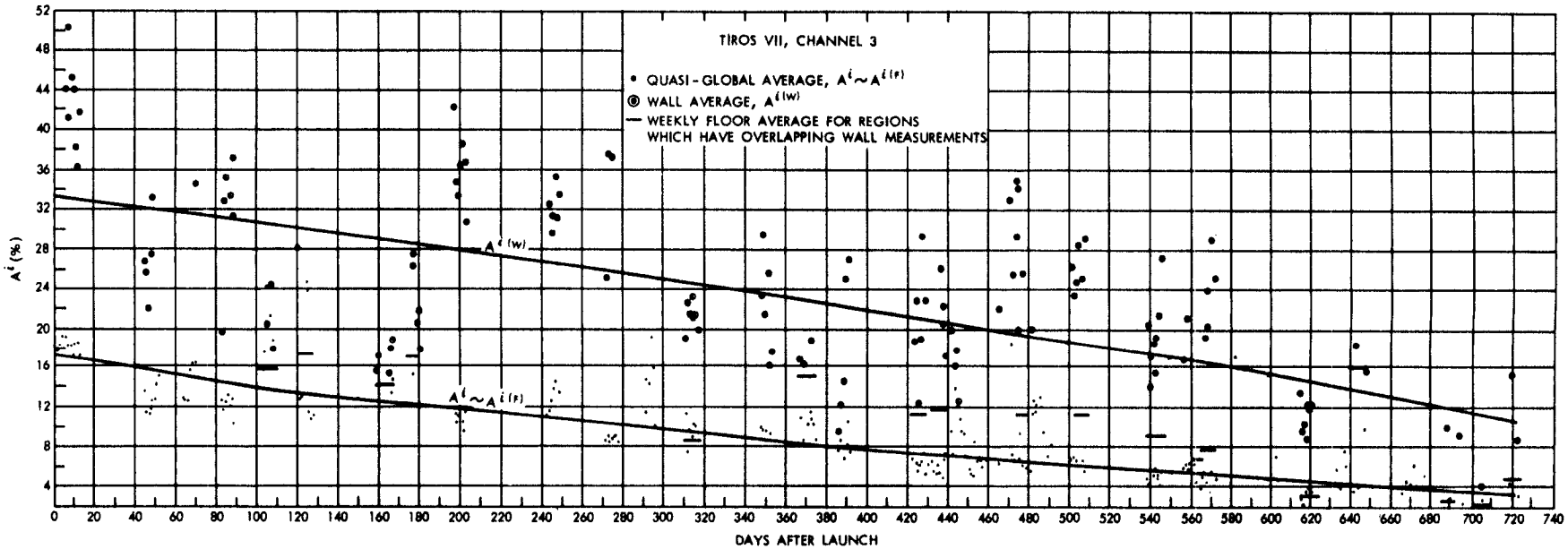


Figure 73—The average quasi-global albedo A^{1} and $A^{1(W)}$, in the latitudinal range 70° N to 70° S for channel 3 vs. days after launch. Since there are few wall measurements, the quasi-global averages of $A^{1(F)}$ and A^{1} are essentially the same. The bars represent the weekly averages of floor measurements for regions which have overlapping wall measurements.

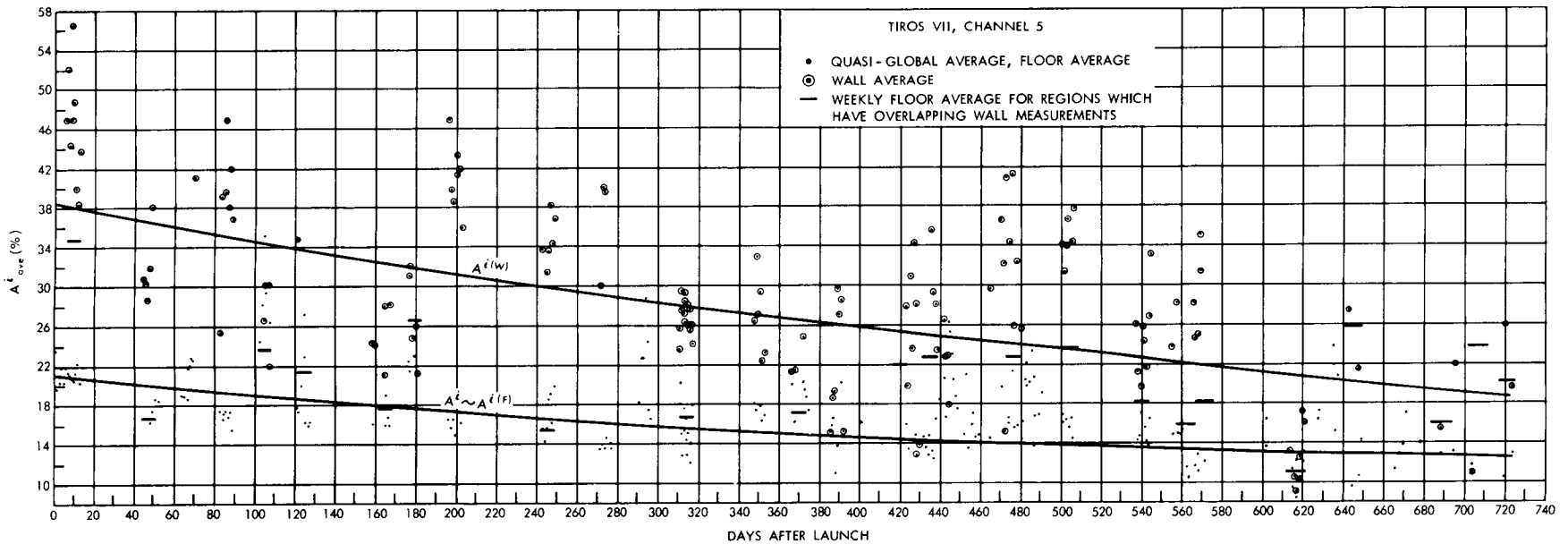
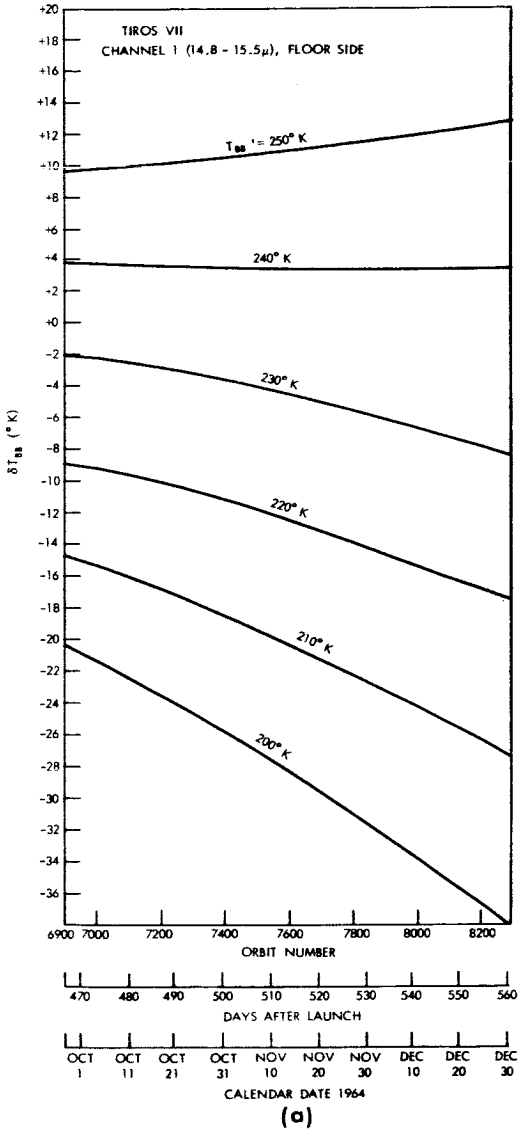


Figure 74—The average quasi-global albedo A^i and $A^{i(W)}$, in the latitudinal range of 70° N to 70° S for channel 5 vs. days after launch. Since there are few wall measurements the quasi-global averages of $A^{i(F)}$ and A^i are essentially the same. The bars represent the weekly averages of floor measurements for regions which have overlapping wall measurements.



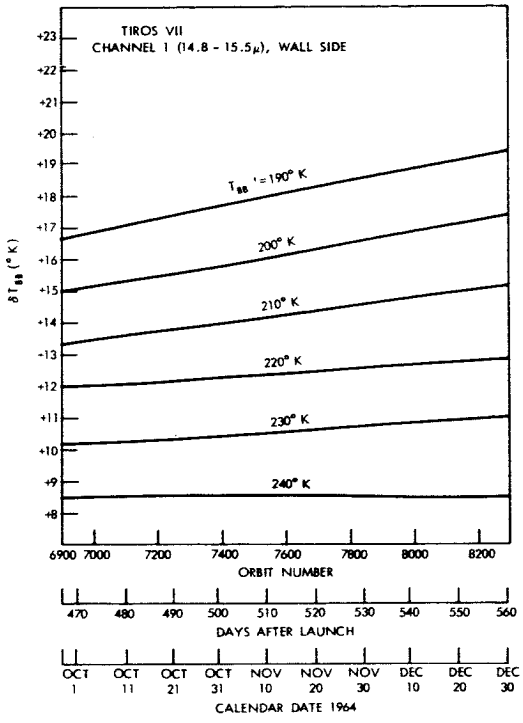


Figure 77a—Temperature corrections δT_{BB} vs. orbit number, channel 1, floor side. An equivalent blackbody temperature measurement, T'_{BB}, should be corrected by adding the δT_{BB} value corresponding to the appropriate orbit number. (δT_{BB} includes both symmetric and asymmetric components.)

Figure 77b—Temperature corrections δT_{BB} vs. orbit number, channel 1, wall side. An equivalent blackbody temperature measurement, T'_{BB}, should be corrected by adding the δT_{BB} value corresponding to the appropriate orbit number. (δT_{BB} includes both symmetric and asymmetric components.)

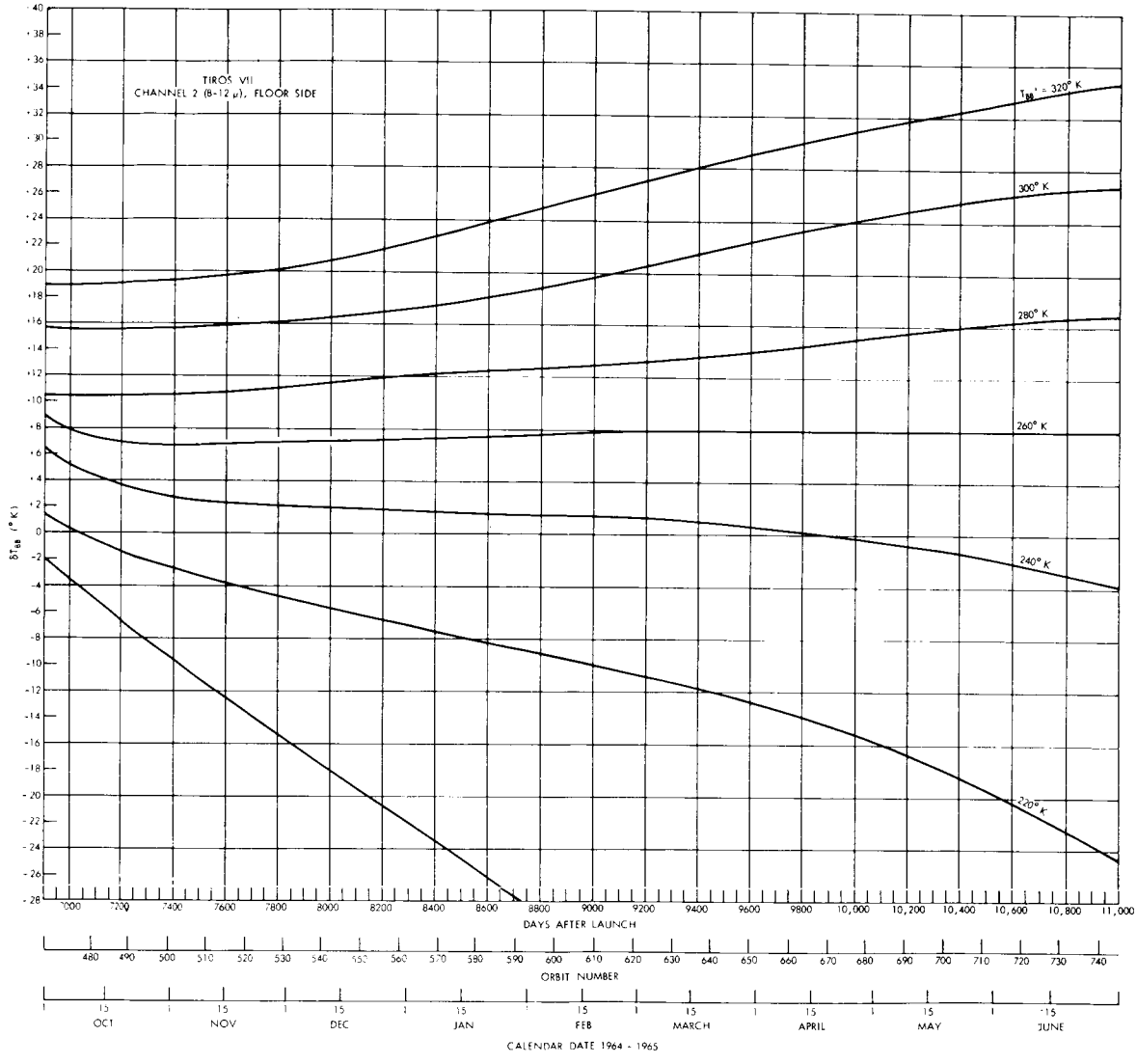


Figure 78a—Temperature corrections δT_{BB} vs. orbit number, channel 2, floor side. An equivalent blackbody temperature measurement T'_{BB} should be corrected by adding the δT_{BB} value corresponding to the appropriate orbit number. (δT_{BB} includes both symmetric and asymmetric components.)

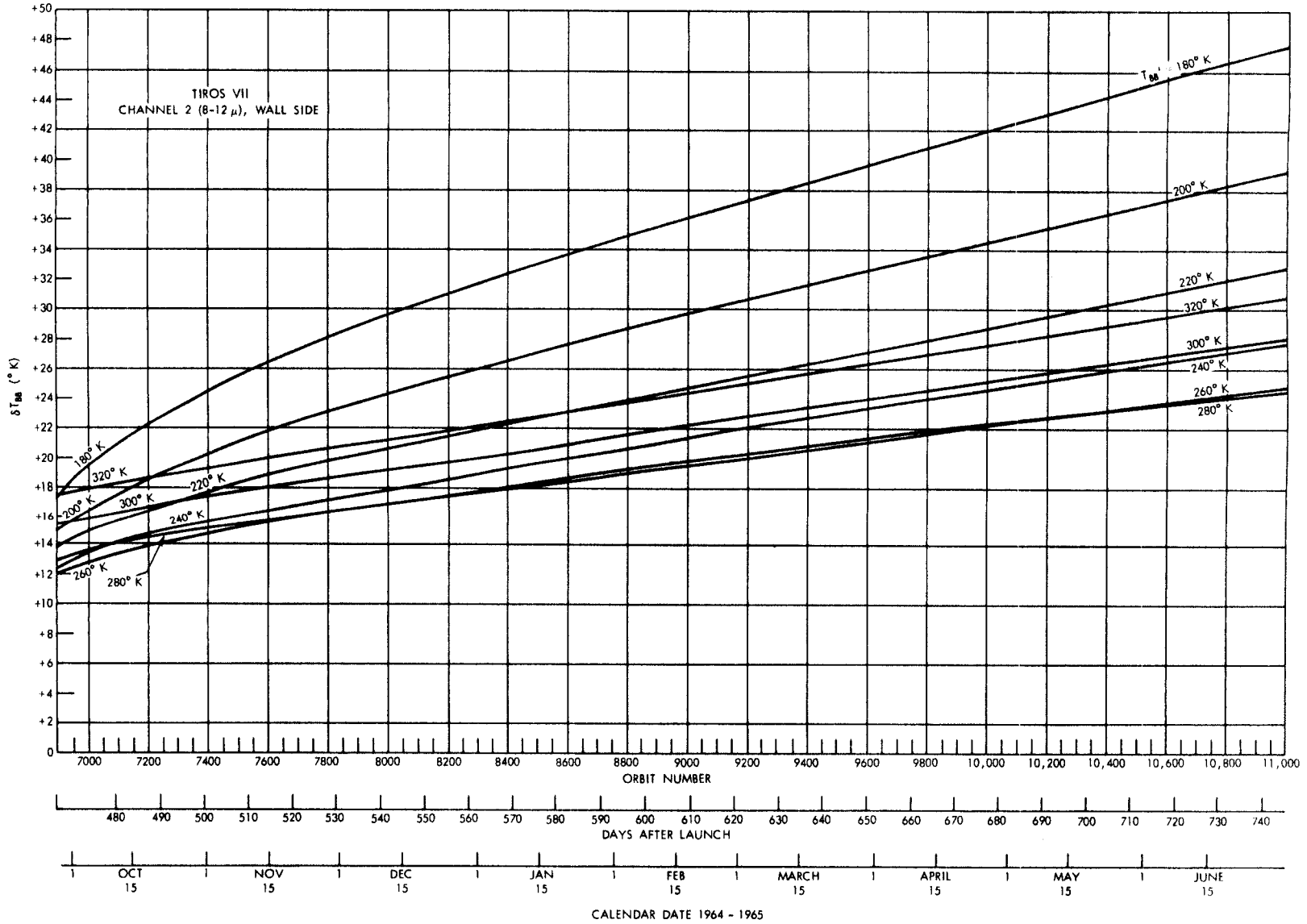


Figure 78b—Temperature corrections δT_{BB} vs. orbit number, channel 2, wall side. An equivalent blackbody temperature measurement, T'_{BB}, should be corrected by adding the δT_{BB} value corresponding to the appropriate orbit number. (δT_{BB} contains both symmetric and asymmetric components.)

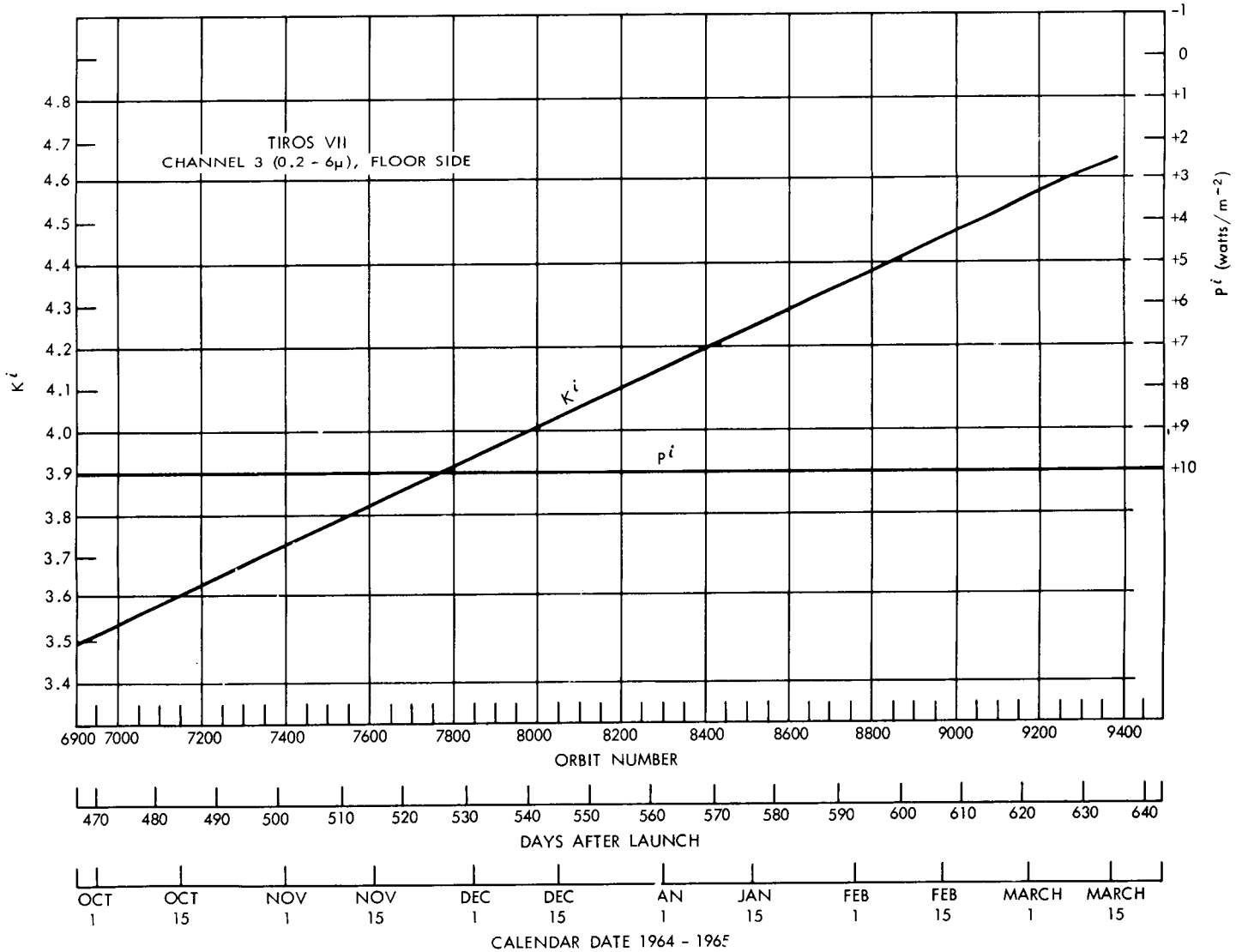


Figure 80—Normalizing parameters κ^i and ρ^i for channel 3. A measurement $\overline{W}'$ should be corrected to yield $\overline{W}$ by means of the equation $\overline{W} = \kappa^i(\overline{W}' + \rho^i)$.

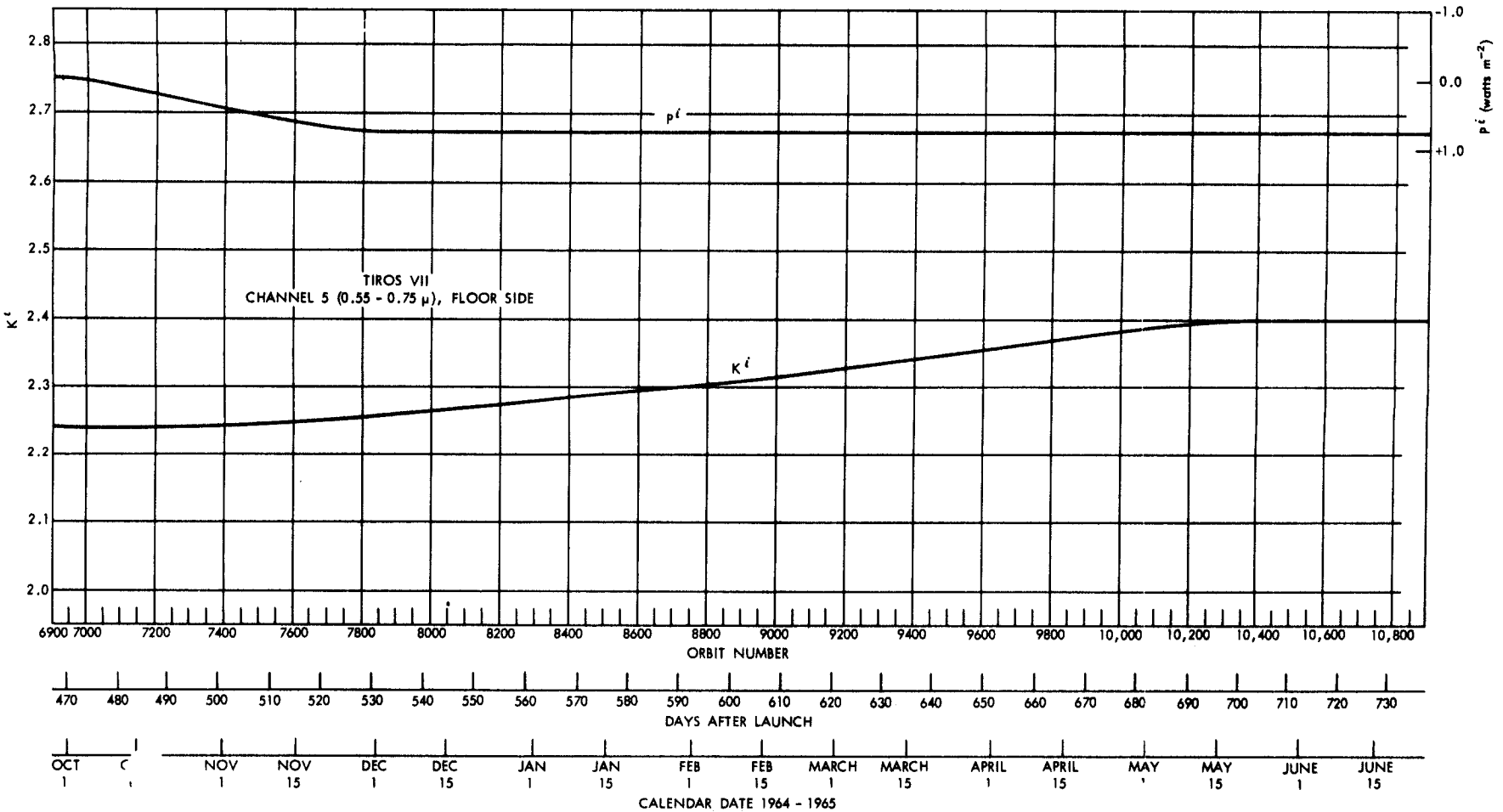


Figure 81—Normalizing parameters κ^1 and ρ^1 for channel 5. A measurement $\overline{W}'$ should be corrected to yield $\overline{W}$ by means of the equation $\overline{W} = \kappa^1(\overline{W}' + \rho^1)$.

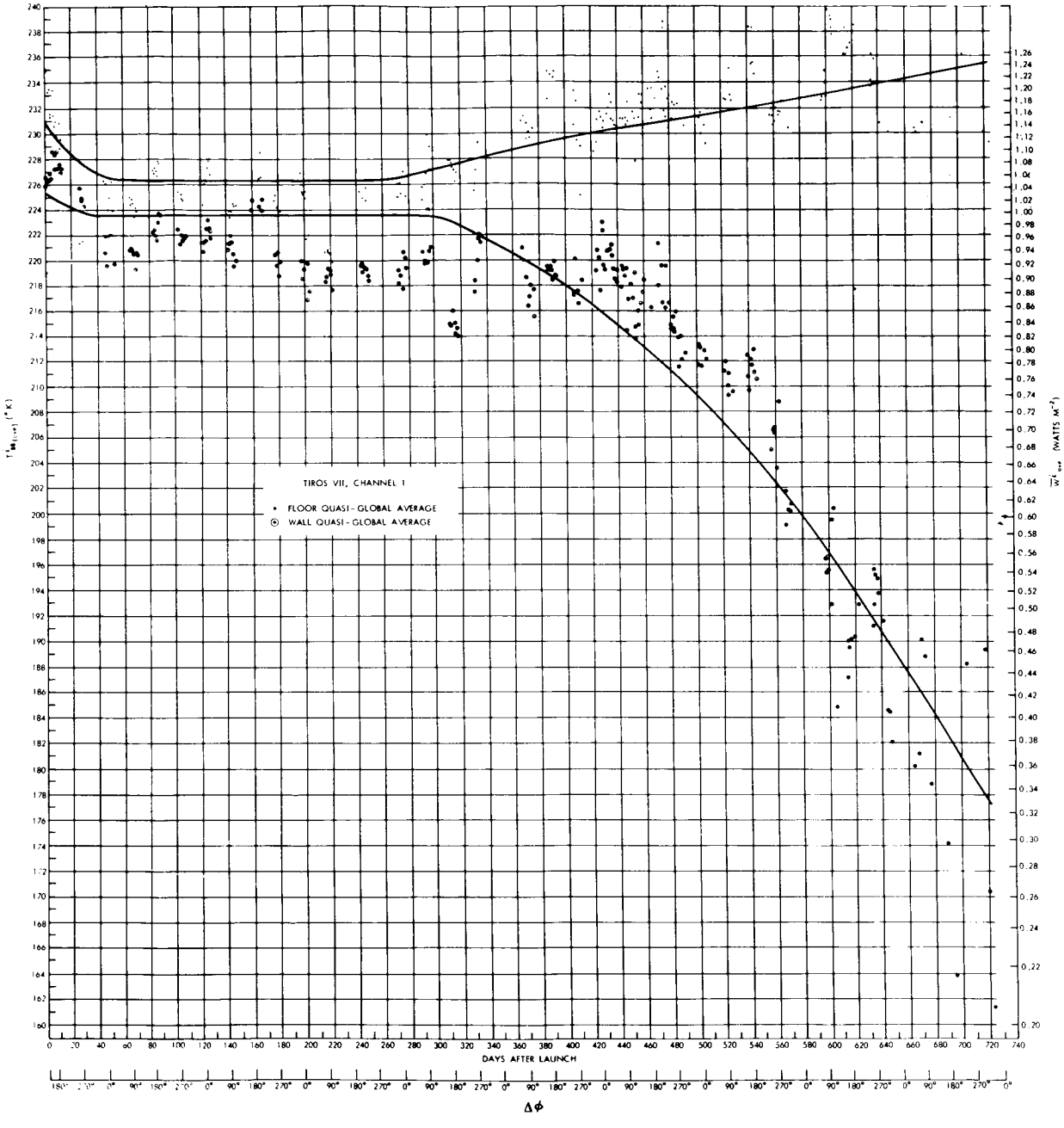


Figure 83—The average floor and wall quasi-global T^i_{BB} and $\overline{W}^i$ values for channel 1 in latitude range 70° N to 70° S vs. days after launch.

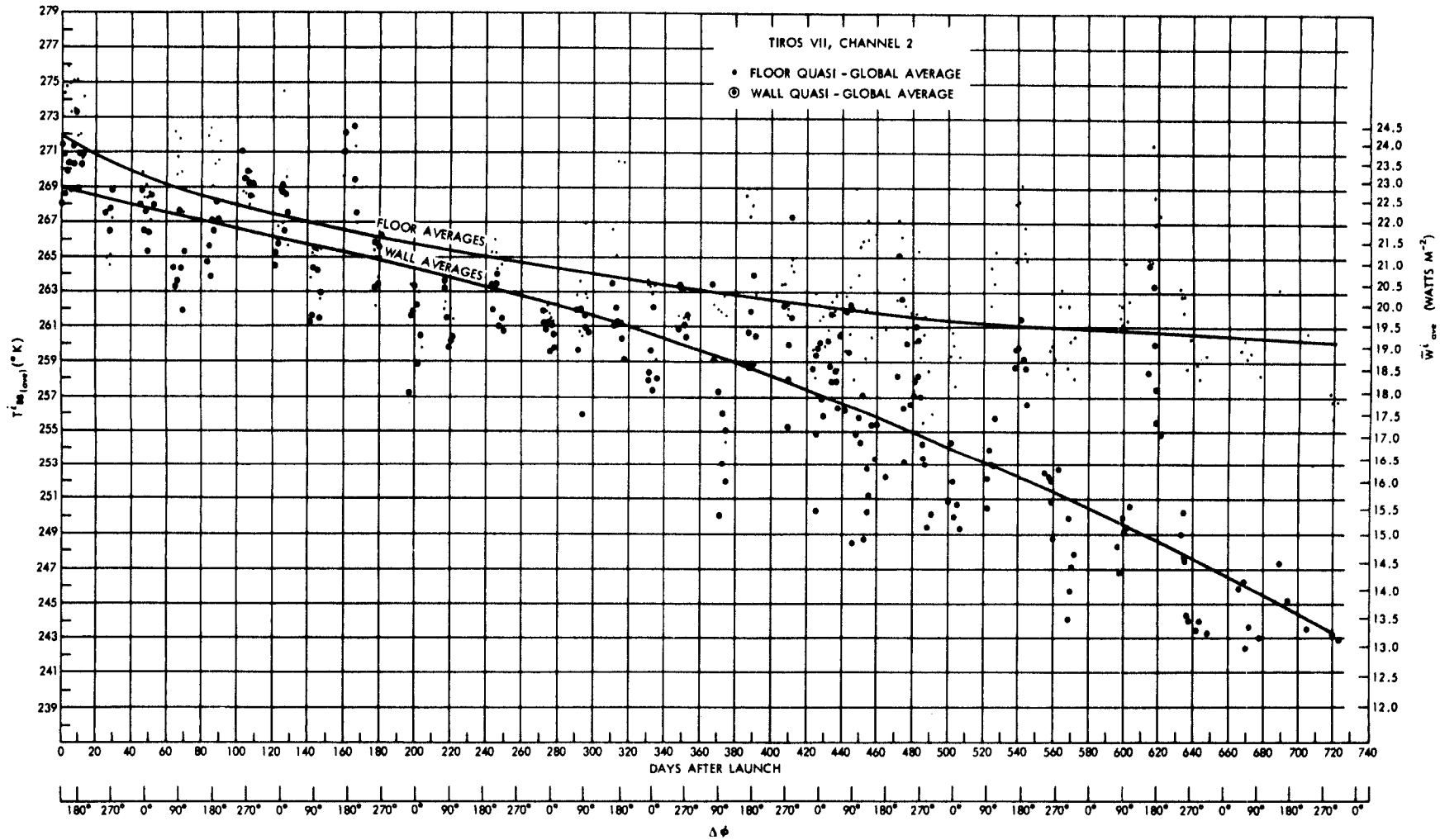


Figure 84—The average floor and wall quasi-global T^{i}_{BB} and $\overline{W}^{i}$ values for channel 2 in latitude range 70° N to 70° S vs. days after launch.

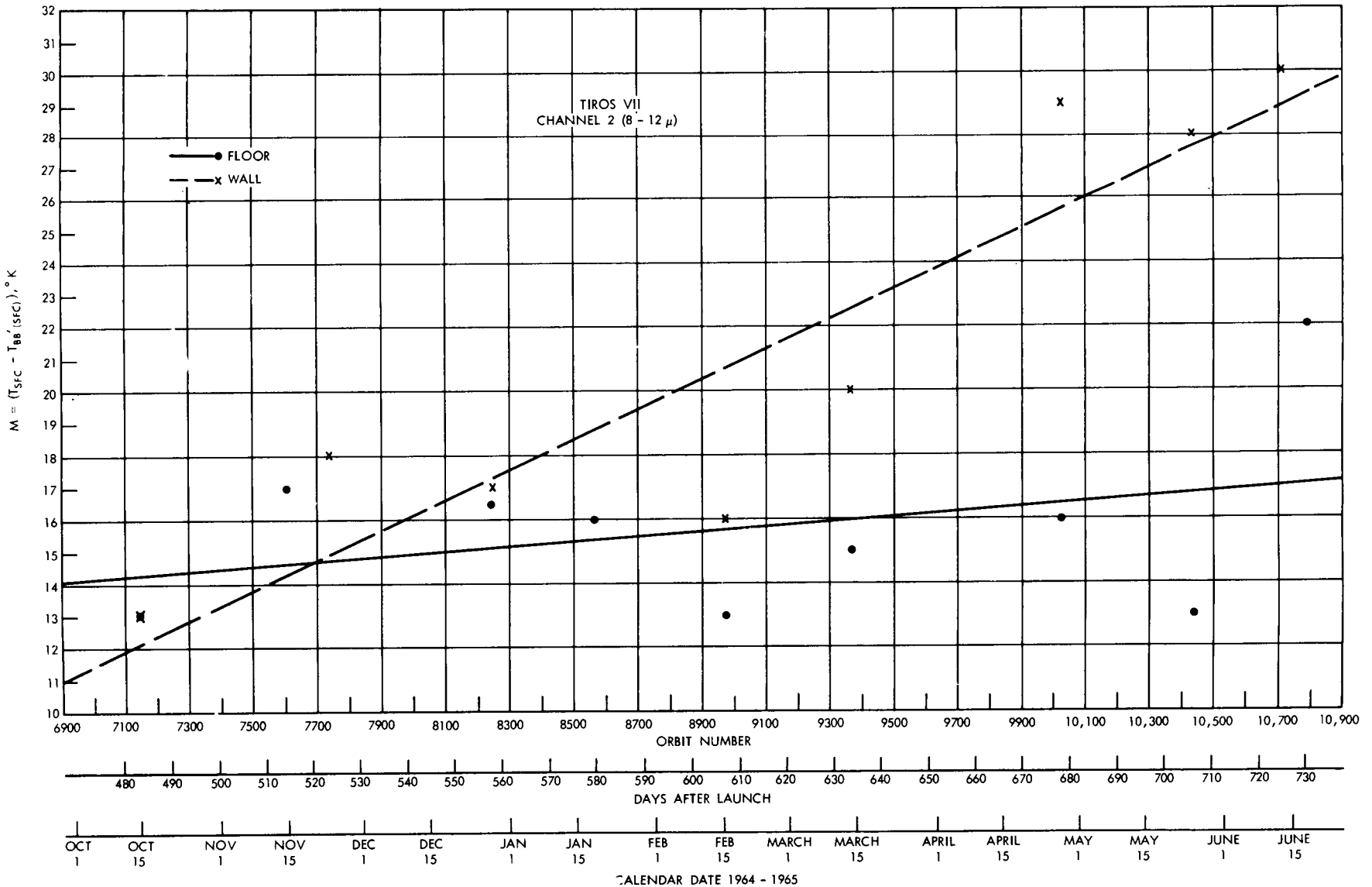


Figure 89—Deviations of channel 2 floor and wall measurements of surface temperatures (adjusted for atmospheric absorption), $T'_{BB(SFC)}$, from assumed surface temperatures from an oceanographic atlas, T_{SFC}, vs. orbit number. Measurements were made over clear sky equatorial oceanic regions. Values of M tend to corroborate Figures 78a and b.

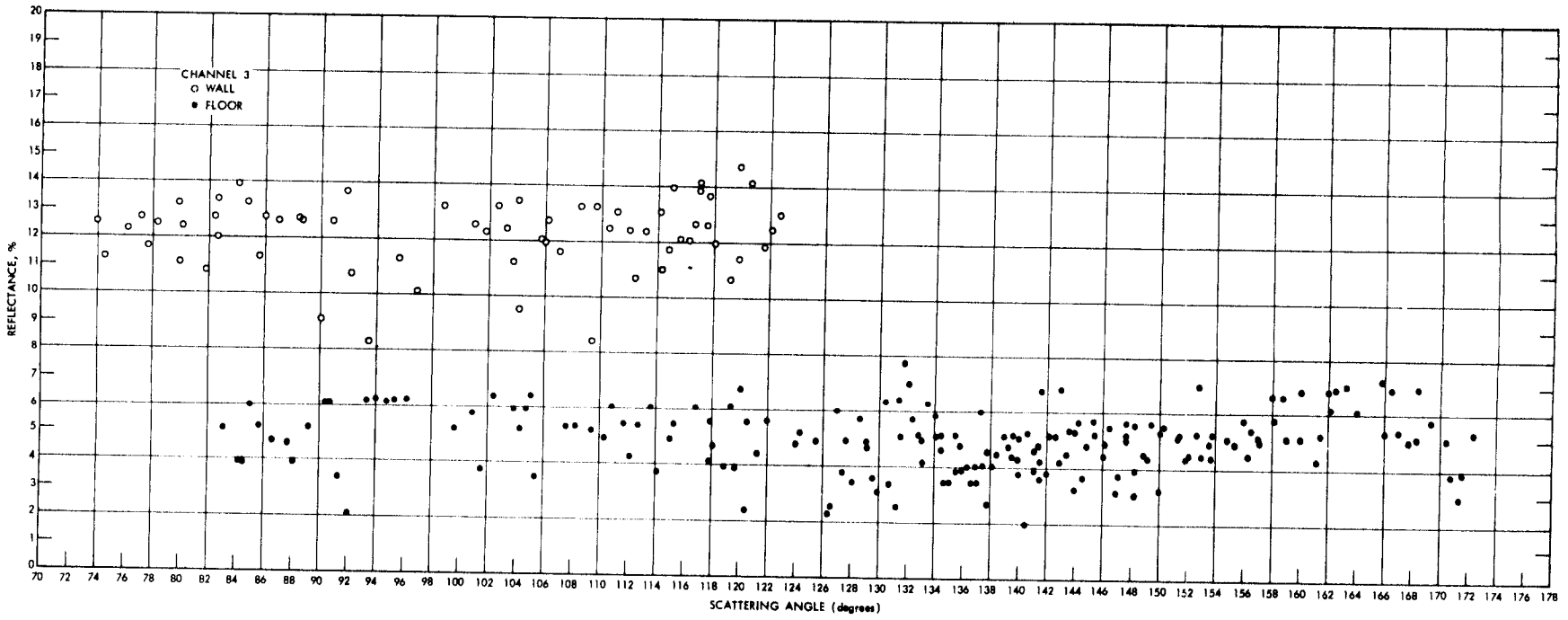


Figure 90a—Channel 3 floor and wall Sahara measurements vs. scattering angle ϕ (i.e., the angle between a ray of scattered radiation and the direction in which the incident radiation was advancing). The floor measurements are for February 10-13, 1965. During February 15-22, 1965, the satellite experienced a 105° torquing maneuver, resulting in a geometry which made possible daytime wall measurements over the Sahara Desert. The wall measurements are for February 23-28, 1965.

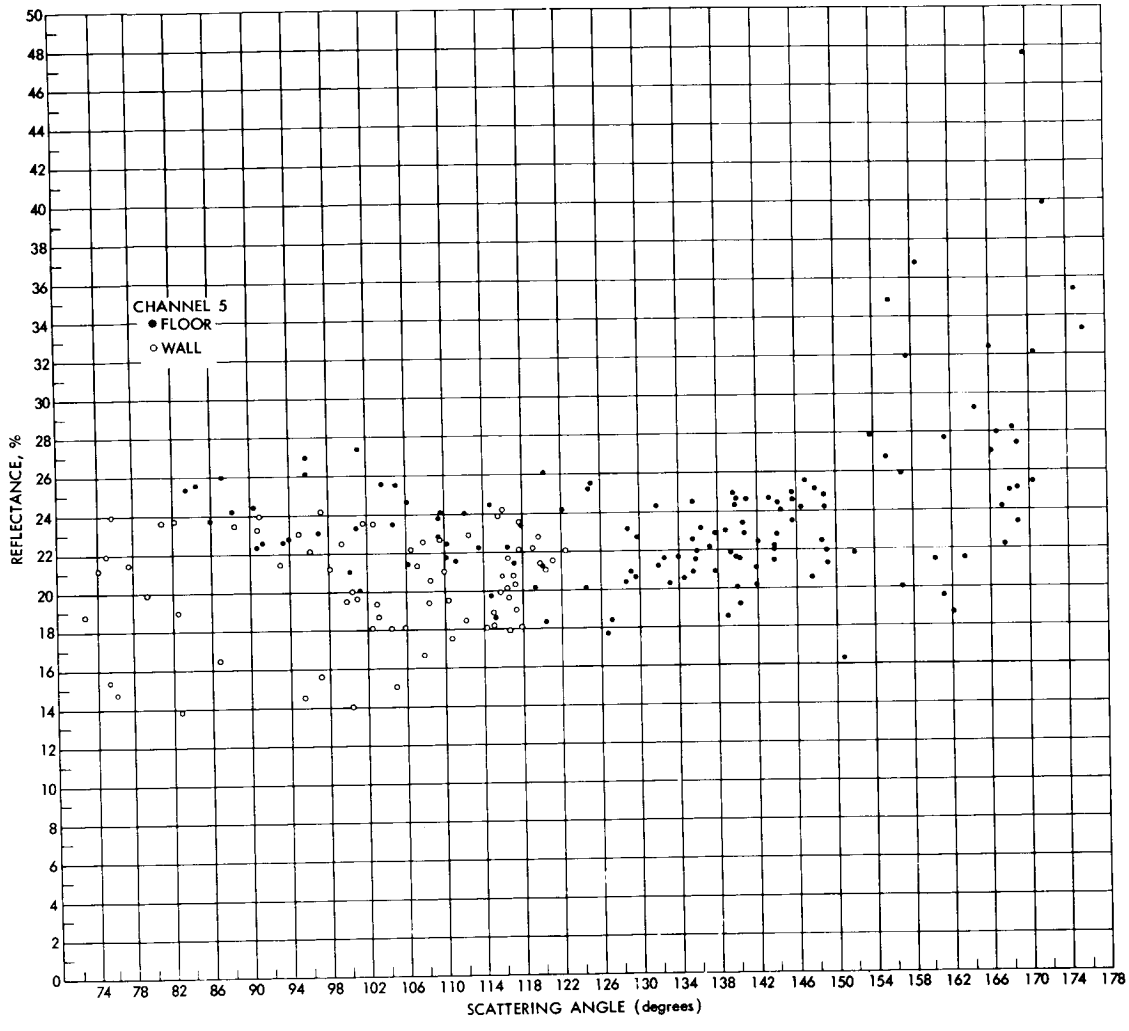


Figure 90b—Channel 5 floor and wall Sahara measurements vs. scattering angle ϕ (i.e., the angle between a ray of scattered radiation and the direction in which the incident radiation was advancing). The floor measurements are for February 10-13, 1965. During February 15-22, 1965, the satellite experienced a 105° torquing maneuver, resulting in a geometry which made possible daytime wall measurements over the Sahara Desert. The wall measurements are for February 23-28, 1965.

APPENDIX A

INDEX OF FINAL METEOROLOGICAL RADIATION TAPES

Two hundred thirty-four tapes, containing data from 764 individual orbits of TIROS VII from October 1, 1964 to June 19, 1965, are tabulated on the following pages. The FMR tapes from this period are numbered from 789 to 1023. The nomenclature used in the Index and an example illustrating the use of the Index is given in Appendix A, Volume 1.

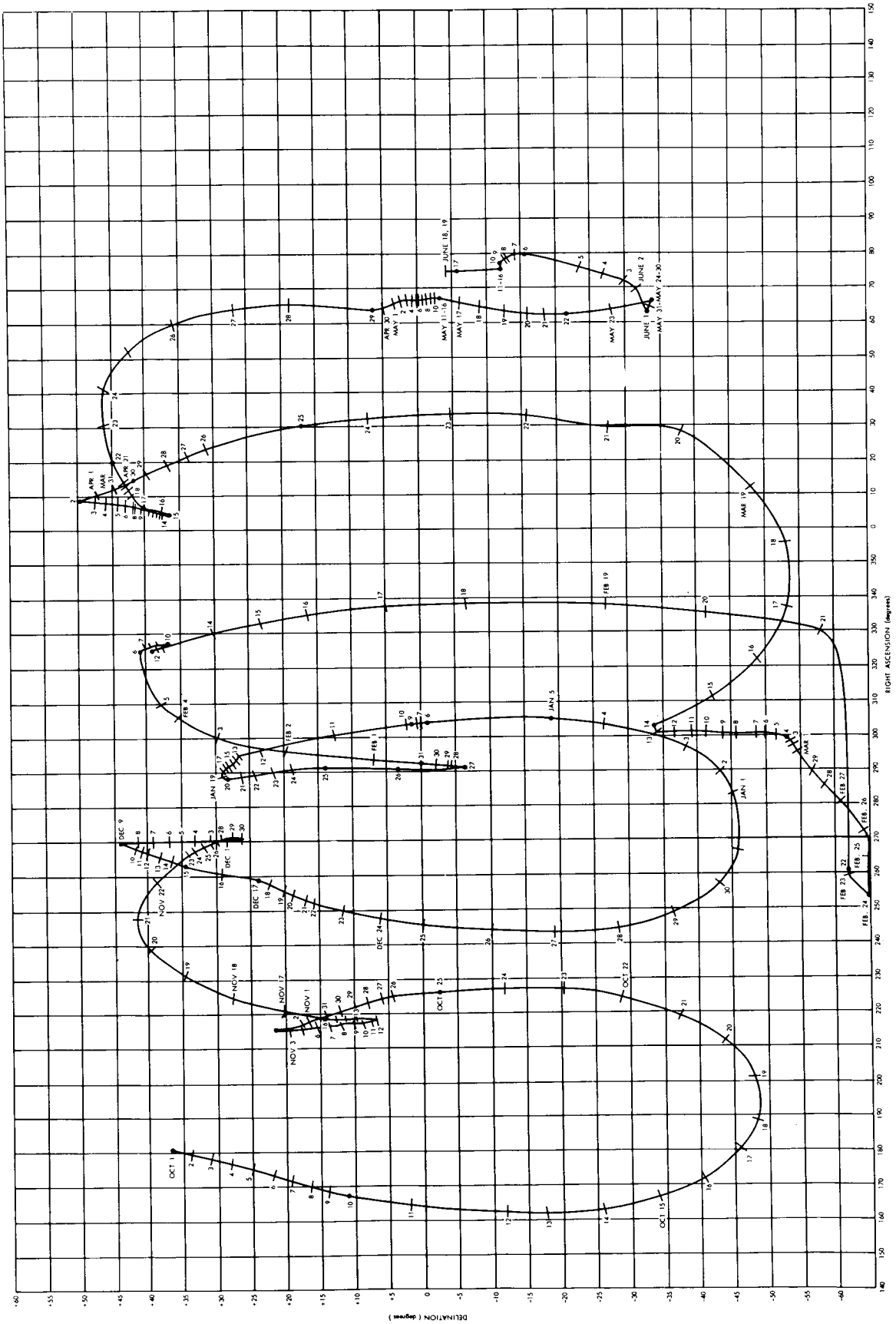


Figure A1—Observed motion of the TIROS VII spin vector on the celestial sphere. Each subdivision represents one day. Positions at 12 GMT each day are indicated.

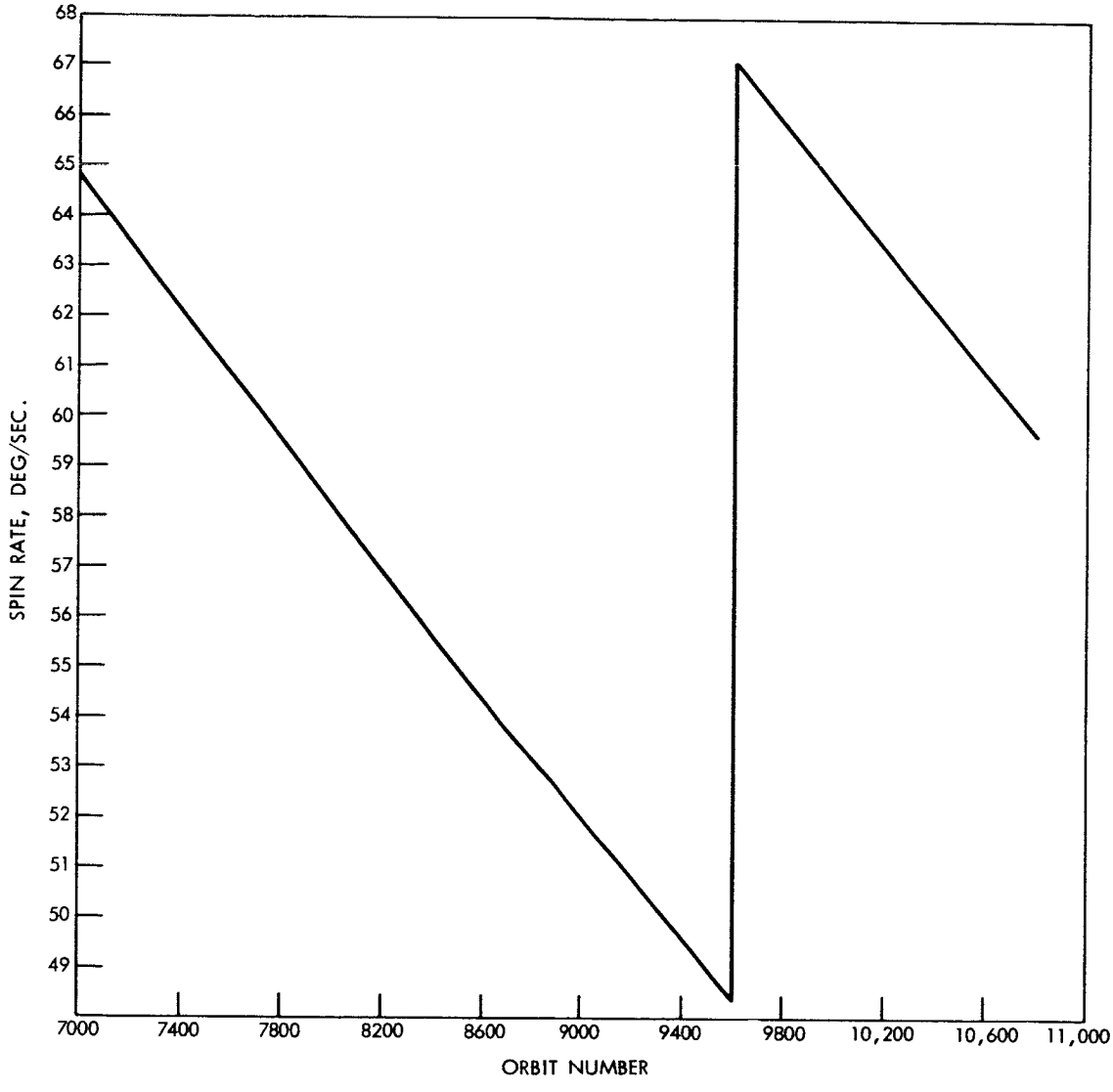


Figure A2—Time history of the TIROS VII spin rate.

READOUT						ORBIT					TIME INTERVAL OF FILE ON FMR TAPE				
		SATELLITE EQUATOR CROSSING AT ORBITAL ASCENDING NODE (ANO)				SPIN VECTOR ATTITUDE					BEGIN	END		DROPOUTS, MINUTES W/R/T ANO	
ORBIT NO.	CDA STA	EARTH LONGI-TUDE (DEG)	HOURS MINUTES SECONDS (GMT)	CALENDAR DATE	TIROS DAY	DECLI-NA-TION (DEG)	RIGHT ASCEN-SION (DEG)	MINI-MUM NADIR (DEG)	TOT (MIN. AFTER ANO)	SPIN RATE (DEG /SEC)	MINU-TES W/R/T ANO	HOURS MINUTES SECONDS (GMT)	MINU-TES W/R/T ANO	FROM-	TO-	FMR TAPE REEL NO.
6966	2	114.60	14*34*33	10/ 2/64	471	33.0	179.0	-27.7	42.3	65.152	-56.6	15* 8* 3	33.5			789
6976	2	-132.10	6*48*34	10/ 3/64	472	30.8	178.1	-28.2	43.1	65.071	-58.2	6*59* 3	10.5			790
6979	1	153.88	11*40*47	10/ 3/64	472	30.4	177.6	-28.3	43.2	65.046	6.2	12*14* 3	33.3			790
7006	2	-152.24	7*30*38	10/ 5/64	474	25.0	174.8	-29.6	45.2	64.827	-58.9	7*41* 3	10.4			791
7021	2	-162.31	7*51*40	10/ 6/64	475	22.2	173.2	-30.2	46.2	64.705	-75.8	8* 5* 3	13.4			792
7023	1	148.34	11* 6*28	10/ 6/64	475	21.9	172.9	-30.3	46.3	64.689	9.0	11*40* 3	33.6			792
7024	1	123.60	12*43*52	10/ 6/64	475	21.7	172.8	-30.3	46.4	64.681	27.9	13*22* 3	38.2			792
7025	2	98.99	14*21*16	10/ 6/64	475	21.5	172.8	-30.4	46.5	64.673	-45.9	14*56* 3	34.8			792
7038	1	138.27	11*27*30	10/ 7/64	476	19.1	171.4	-31.0	47.4	64.568	23.8	12* 2* 3	34.6			793
7040	2	88.93	14*42*18	10/ 7/64	476	18.7	171.2	-31.1	47.6	64.552	-61.3	15*19* 3	36.8			793
7050	2	-157.77	6*56*19	10/ 8/64	477	16.8	170.2	-31.6	48.4	64.473	-53.5	7* 8* 3	11.7			794
7053	1	128.20	11*48*32	10/ 8/64	477	16.4	169.8	-31.6	48.5	64.449	1.4	12*25* 3	36.5			794
7079	2	-153.24	6* 0*58	10/10/64	479	11.7	167.3	-32.9	50.4	64.247	-51.3	6*11*33	10.6			795
7082	1	132.74	10*53*10	10/10/64	479	11.3	166.9	-32.9	50.6	64.224	-49.7	11*28* 3	34.9			795
7084	2	83.40	14* 7*59	10/10/64	479	10.1	166.8	-32.9	50.8	64.209	-39.2	14*46* 3	38.1			795
7106	1	-99.36	1*50*50	10/12/64	481	-4.5	163.4	-26.4	55.1	64.045	-60.4	2* 0* 3	9.2			796
7111	1	137.28	9*57*51	10/12/64	481	-7.2	161.9	-24.6	55.6	64.009	-31.8	10*32* 3	34.2			796
7120	1	-84.75	0*34*28	10/13/64	482	-13.6	162.3	-22.2	57.5	63.944	-90.0	0*43* 3	8.6			797
7123	2	-158.84	5*26*40	10/13/64	482	-15.2	161.7	-21.3	57.9	63.923	-54.4	5*39* 3	12.4			797
7128	2	77.79	13*33*41	10/13/64	482	-18.4	161.3	-19.6	58.6	63.888	-38.8	14*12* 3	38.4			798
7137	2	-144.24	4*10*18	10/14/64	483	-24.1	162.3	-17.6	60.5	63.826	-71.3	4*18*33	8.3			799
7140	3	141.73	9* 2*30	10/14/64	483	-25.6	161.9	-16.7	60.9	63.806	-54.7	9*22* 3	19.6			799
7142	2	92.39	12*17*18	10/14/64	483	-27.0	162.1	-16.1	61.2	63.793	7.3	12*53* 3	35.8			799
7149	1	-80.30	23*39* 7	10/14/64	483	-31.5	164.4	-14.7	62.8	63.746	-89.5	23*48* 3	8.9			800
7150	1	-104.98	1*16*31	10/15/64	484	-31.9	164.6	-14.6	63.0	63.740	-78.3	1*27* 3	10.5			800
7152	2	-154.32	4*31*19	10/15/64	484	-32.8	164.6	-14.2	63.3	63.727	-64.9	4*42* 3	10.7			800

READOUT						ORBIT					TIME INTERVAL OF FILE ON FMR TAPE					
		SATELLITE EQUATOR CROSSING AT ORBITAL ASCENDING NODE (ANO)				SPIN VECTOR ATTITUDE					BEGIN	END		DROPOUTS, MINUTES W/R/T ANO		
ORBIT NO.	CDA STA	EARTH LONGI -TUDE (DEG)	HOURS MINUTES SECONDS (GMT)	CALENDAR DATE	TIROS DAY	DECLI -NA -TION (DEG)	RIGHT ASCEN -SION (DEG)	MINI -MUM NADIR (DEG)	TOT (MIN. AFTER ANO)	SPIN RATE (DEG /SEC)	MINU -TES W/R/T ANO	HOURS MINUTES SECONDS (GMT)	MINU -TES W/R/T ANO	FROM-	TO-	FMR TAPE REEL NO.
7155	1	131.65	9*23*32	10/15/64	484	-34.3	164.6	-13.5	63.7	63.707	-52.3	9*59* 3	35.5			800
7157	2	82.31	12*38*20	10/15/64	484	-35.6	165.2	-12.9	64.0	63.694	-39.9	13*15* 3	36.7			800
7164	1	-90.38	0* 0* 8	10/16/64	485	-39.4	168.9	-11.9	65.5	63.650	-89.0	0* 9* 3	8.9			801
7165	1	-115.05	1*37*32	10/16/64	485	-39.7	169.2	-11.8	65.7	63.644	-77.3	1*50* 3	12.5			801
7167	2	-164.39	4*52*21	10/16/64	485	-40.4	169.6	-11.5	66.0	63.631	-62.8	5* 6* 3	13.7			801
7169	1	146.25	8* 7* 9	10/16/64	485	-41.2	169.9	-11.2	66.3	63.619	-60.8	8*40* 3	32.9			801
7171	2	96.91	11*21*57	10/16/64	485	-42.3	170.6	-10.7	66.5	63.607	-41.8	11*57* 3	35.1			801
7181	2	-149.79	3*35*58	10/17/64	486	-46.0	177.5	-9.7	68.7	63.547	-13.3	3*45* 3	9.1			802
7185	2	111.51	10* 5*35	10/17/64	486	-47.3	179.0	-9.2	69.3	63.524	-42.3	10*39* 3	33.5			802
7186	2	86.83	11*42*59	10/17/64	486	-47.7	179.9	-8.9	69.5	63.518	-52.7	12*18*33	35.6			802
7193	1	-85.86	23* 4*48	10/17/64	486	-49.2	186.8	-8.5	71.1	63.478	-60.2	23*13* 3	8.3			803
7194	1	-110.53	0*42*12	10/18/64	487	-49.2	187.5	-8.6	71.3	63.473	-76.4	0*53* 3	10.9			803
7195	2	-135.20	2*19*36	10/18/64	487	-49.2	188.1	-8.6	71.5	63.467	-74.6	2*27* 3	7.5			803
7201	2	76.76	12* 4* 1	10/18/64	487	-50.2	192.0	-8.1	72.4	63.434	-21.3	12*42*33	38.5			803
7208	1	-55.93	23*25*47	10/18/64	487	-49.7	199.4	-8.1	74.2	63.397	-38.5	23*35* 3	9.3			804
7209	1	-120.60	1* 3*13	10/19/64	488	-49.5	200.1	-8.3	74.3	63.392	-74.7	1*17* 3	13.8			804
7210	2	-145.28	2*40*38	10/19/64	488	-49.3	200.6	-8.4	74.4	63.387	-37.7	2*50* 3	9.4			804
7215	2	91.36	10*47*38	10/19/64	488	-49.1	203.8	-8.4	75.2	63.362	-28.5	11*23*33	35.9			804
7223	1	-106.00	23*46*51	10/19/64	488	-46.5	211.3	-8.9	77.0	63.334	-78.9	23*58* 3	11.2			805
7224	2	-130.67	1*24*15	10/20/64	489	-46.1	211.7	-9.2	77.2	63.327	-72.5	1*32* 3	7.8			805
7230	2	81.36	11* 8*40	10/20/64	489	-44.6	214.7	-9.6	78.1	63.285	-30.4	11*45*33	36.9			805
7238	1	-116.00	0* 7*53	10/21/64	490	-40.4	219.9	-10.7	80.0	63.228	-74.0	0*24* 3	16.2			806
7244	3	95.96	9*52*17	10/21/64	490	-38.1	221.5	-11.8	80.9	63.187	-33.6	10*18*33	26.3			806
7259	2	85.89	10*13*19	10/22/64	491	-29.5	225.8	-14.7	83.8	63.082	-62.2	10*49*33	36.2			807
7267	1	-111.46	23*12*31	10/22/64	491	-23.7	227.6	-16.5	85.7	63.027	-74.2	23*25* 3	12.5			808
7268	2	-136.14	0*49*56	10/23/64	492	-23.0	227.5	-16.9	85.8	63.020	-71.5	0*58* 3	8.1			808

READOUT						ORBIT					TIME INTERVAL OF FILE ON FMR TAPE					
		SATELLITE EQUATOR CROSSING AT ORBITAL ASCENDING NODE (ANO)				SPIN VECTOR ATTITUDE					BEGIN	END		DROPOUTS, MINUTES W/R/T ANO		
ORBIT NO.	CDA STA	EARTH LONGI-TUDE (DEG)	HOURS MINUTES SECONDS (GMT)	CALENDAR DATE	TIROS DAY	DECLI-NA-TION (DEG)	RIGHT ASCEN-SION (DEG)	MINI-MUM NADIR (DEG)	TOT (MIN. AFTER ANO)	SPIN RATE (DEG /SEC)	MINU-TES W/R/T ANO	HOURS MINUTES SECONDS (GMT)	MINU-TES W/R/T ANO	FROM-	TO-	FMR TAPE REEL NO.
7271	3	149.84	5*42* 8	10/23/64	492	-21.5	227.1	-17.9	86.2	63.000	-43.0	6* 2* 3	19.9			808
7273	3	100.50	8*56*50	10/23/64	492	-20.5	227.3	-18.3	86.5	62.986	-47.5	9*21*33	24.6			808
7274	2	75.83	10*34*20	10/23/64	492	-19.9	227.5	-18.4	86.7	62.979	-60.3	11*13*33	39.2			808
7281	1	-96.86	21*56* 9	10/23/64	492	-14.4	228.3	-20.1	88.3	62.932	-80.3	22* 6* 3	9.9			809
7282	1	-121.53	23*33*47	10/23/64	492	-13.7	228.1	-20.7	88.1	62.925	-74.3	23*47* 3	13.3			809
7283	2	-146.20	1*10*57	10/24/64	493	-13.1	227.8	-21.1	88.4	62.918	-70.2	1*20* 3	9.1			809
7287	3	115.11	7*40*34	10/24/64	493	-11.1	227.1	-22.4	89.1	62.891	-41.5	8* 4* 3	23.5			809
7296	1	-106.93	22*17*11	10/24/64	493	-4.6	227.1	-24.5	91.0	62.830	-78.3	22*29* 3	11.9			810
7297	2	-131.60	23*54*35	10/24/64	493	-4.0	226.8	-25.0	91.2	62.823	-73.4	0* 2* 3	7.5			810
7302	3	105.04	8* 1*35	10/25/64	494	-1.4	225.6	-26.8	91.8	62.790	-32.3	8*26* 3	24.5			810
7303	2	80.37	9*38*59	10/25/64	494	-0.7	225.6	-26.9	91.9	62.783	-60.7	10*16*33	37.6			810
7311	1	-116.99	22*38*12	10/25/64	494	4.8	225.0	-29.2	93.7	62.730	-81.3	22*51* 3	12.9			811
7312	2	-141.66	0*15*36	10/26/64	495	4.9	224.9	-29.1	93.8	62.723	-72.1	0*25* 3	9.5			811
7316	3	119.64	6*45*13	10/26/64	495	5.2	224.6	-28.8	94.0	62.696	-53.1	7* 9* 3	23.8			811
7317	2	94.97	8*22*37	10/26/64	495	5.3	224.6	-28.6	94.0	62.690	-43.5	8*58*33	35.9			811
7326	2	-127.05	22*59*14	10/26/64	495	6.3	224.1	-27.6	94.6	62.630	-81.2	23* 9* 3	9.8			812
7327	2	-151.72	0*36*38	10/27/64	496	6.4	224.0	-27.5	94.7	62.624	-80.8	0*47* 3	10.4			812
7329	3	158.84	3*51*26	10/27/64	496	6.5	223.8	-27.4	94.8	62.611	-63.2	4*10* 3	18.6			812
7332	2	84.63	8*43*38	10/27/64	496	6.8	223.7	-27.0	94.8	62.591	-43.3	9*20*33	36.9			812
7339	1	-87.86	20* 5*27	10/27/64	496	7.6	223.4	-26.2	95.3	62.545	-86.8	20*14* 3	8.6			813
7340	1	-112.54	21*42*51	10/27/64	496	7.8	223.3	-26.1	95.4	62.539	-75.6	21*55* 3	12.2			813
7344	3	148.77	4*12*27	10/28/64	497	8.1	222.9	-25.8	95.6	62.512	-63.1	4*32* 3	19.6			813
7354	1	-97.93	20*26*28	10/28/64	497	9.3	222.4	-24.7	96.2	62.448	-88.2	20*37* 3	10.6			814
7358	3	163.37	2*56* 5	10/29/64	498	9.7	221.9	-24.4	96.4	62.422	-52.2	3*14* 3	18.0			814
7359	3	138.70	4*33*29	10/29/64	498	9.8	221.8	-24.3	96.4	62.415	-66.1	4*54* 3	20.6			814
7369	1	-108.00	20*47*30	10/29/64	498	11.1	221.3	-23.2	97.1	62.351	-77.3	20*59* 3	11.6			815

READOUT						ORBIT					TIME INTERVAL OF FILE ON FMR TAPE				
		SATELLITE EQUATOR CROSSING AT ORBITAL ASCENDING NODE (ANO)				SPIN VECTOR ATTITUDE					BEGIN	END		DROPOUTS, MINUTES W/R/T ANO	
ORBIT NO.	CDA STA	EARTH LONGI-TUDE (DEG)	HOURS MINUTES SECONDS (GMT)	CALENDAR DATE	TIROS DAY	DECLI-NA-TION (DEG)	RIGHT ASCEN-SION (DEG)	MINI-MUM NADIR (DEG)	TOT (MIN. AFTER ANO)	SPIN RATE (DEG /SEC)	MINU-TES W/R/T ANO	HOURS MINUTES SECONDS (GMT)	MINU-TES W/R/T ANO	FROM-	TO-	FMR TAPE REEL NO.
7371	2	-157.34	0* 2*18	10/30/64	499	11.3	221.0	-23.1	97.2	62.338	-61.5	0*14*33	12.3			815
7373	3	153.30	3*17* 6	10/30/64	499	11.5	220.8	-23.0	97.3	62.326	-62.3	3*36*33	19.5			815
7374	3	128.63	4*54*30	10/30/64	499	11.6	220.8	-22.9	97.3	62.319	-66.1	5*16*33	22.1			815
7376	2	79.29	8* 9*18	10/30/64	499	11.8	220.7	-22.6	97.4	62.307	-51.9	8*47*33	38.3			815
7383	1	-93.40	19*31* 7	10/30/64	499	12.7	220.3	-22.1	0.4	62.262	-86.5	19*41* 3	9.9			816
7385	2	-142.74	22*45*55	10/30/64	499	13.0	220.1	-21.9	0.5	62.250	-64.0	22*55* 3	9.1			816
7390	2	93.89	6*52*56	10/31/64	500	13.7	219.6	-21.6	0.8	62.218	-60.5	7*28*33	35.6			816
7398	1	-103.47	19*52* 8	10/31/64	500	14.9	219.0	-21.0	1.3	62.168	-77.4	20* 3* 3	10.9			817
7403	3	133.16	3*59* 9	11/ 1/64	501	15.6	218.3	-20.9	1.5	62.136	-51.1	4*20*33	21.4			817
7405	2	83.82	7*13*57	11/ 1/64	501	15.9	218.2	-20.7	1.6	62.124	-35.0	7*50*33	36.6			817
7412	1	-88.87	18*35*46	11/ 1/64	501	17.0	217.7	-20.1	2.1	62.080	-86.3	18*45* 3	9.3			818
7414	2	-138.22	21*50*34	11/ 1/64	501	17.3	217.3	-20.0	2.2	62.068	-56.5	21*59* 3	8.5			818
7417	3	147.76	2*42*46	11/ 2/64	502	17.7	217.0	-19.9	2.3	62.049	-67.3	3* 3* 3	20.3			818
7418	3	123.09	4*20*10	11/ 2/64	502	17.8	216.9	-19.9	2.4	62.043	-63.1	4*42*33	22.4			818
7419	2	98.42	5*57*34	11/ 2/64	502	18.0	216.9	-19.8	2.5	62.037	-62.5	6*31*33	34.0			818
7427	1	-98.94	16*56*47	11/ 2/64	502	19.2	216.3	-19.0	3.0	61.988	-79.5	19* 7* 3	10.3			819
7429	2	-148.29	22*11*35	11/ 2/64	502	19.5	216.0	-19.0	3.1	61.976	-63.0	22*22* 3	10.5			819
7431	3	162.35	1*26*23	11/ 3/64	503	19.8	215.7	-19.0	3.2	61.963	-62.0	1*45*33	19.2			819
7432	3	137.68	3* 3*47	11/ 3/64	503	19.9	215.6	-18.9	3.2	61.957	-65.0	3*24*33	20.8			819
7433	3	113.01	4*41*12	11/ 3/64	503	20.1	215.6	-18.8	3.3	61.951	-64.9	5* 4*33	23.4			819
7434	2	88.34	6*18*36	11/ 3/64	503	20.2	215.6	-18.7	3.4	61.945	-48.4	6*54*33	36.0			819
7443	2	-133.70	20*55*12	11/ 3/64	503	21.2	215.1	-17.9	3.9	61.890	-77.9	21* 3* 3	7.9			820
7446	3	152.24	1*47*25	11/ 4/64	504	20.8	215.3	-16.9	3.9	61.872	-54.4	2* 7*33	20.1			820
7447	3	127.61	3*24*49	11/ 4/64	504	20.7	215.3	-16.6	3.9	61.866	-65.2	3*46*33	21.7			820
7449	2	78.27	6*39*37	11/ 4/64	504	20.4	215.3	-16.1	3.9	61.854	-51.2	7*17*33	37.9			820
7456	1	-94.42	18* 1*26	11/ 4/64	504	19.2	215.3	-14.0	3.9	61.812	-86.5	18*11*33	10.1			821

READOUT						ORBIT					TIME INTERVAL OF FILE ON FMR TAPE				
		SATELLITE EQUATOR CROSSING AT ORBITAL ASCENDING NODE (ANO)				SPIN VECTOR ATTITUDE					BEGIN	END		DROPOUTS, MINUTES W/R/T ANO	
ORBIT NO.	CDA STA	EARTH LONGI-TUDE (DEG)	HOURS MINUTES SECONDS (GMT)	CALENDAR DATE	TIROS DAY	DECLI-NA-TION (DEG)	RIGHT ASCEN-SION (DEG)	MINI-MUM NADIR (DEG)	TOT (MIN. AFTER ANO)	SPIN RATE (DEG /SEC)	MINU-TES W/R/T ANO	HOURS MINUTES SECONDS (GMT)	MINU-TES W/R/T ANO	FROM-	TO-	FMR TAPE REEL NO.
7461	3	142.21	2* 8*26	11/ 5/64	505	18.5	215.5	-12.4	3.9	61.782	-30.2	2*29*33	21.1			821
7475	3	156.81	0*52* 3	11/ 6/64	506	16.4	215.9	-8.2	3.9	61.698	-50.6	1*12* 3	20.0			822
7477	3	107.47	4* 6*51	11/ 6/64	506	16.1	215.9	-7.6	3.9	61.686	-54.4	4*31* 3	24.2			822
7485	1	-89.89	17* 6* 4	11/ 6/64	506	14.9	216.0	-5.2	3.9	61.639	-89.3	17*14*33	8.5			823
7490	3	146.75	1*13* 5	11/ 7/64	507	14.3	216.3	-3.6	4.0	61.610	-16.8	1*33* 3	20.0			823
7492	2	97.40	4*27*53	11/ 7/64	507	14.0	216.4	-3.0	4.0	61.598	-53.7	5* 2* 3	34.2			823
7500	1	-99.96	17*27* 5	11/ 7/64	507	12.9	216.5	-0.6	4.0	61.551	-79.1	17*38* 3	11.0			824
7502	2	-149.30	20*41*54	11/ 7/64	507	12.7	216.6	0.1	4.1	61.539	-63.2	20*52* 3	10.2			824
7504	3	161.35	23*56*42	11/ 7/64	507	12.5	216.8	0.7	4.1	61.528	-63.9	0*15* 3	18.4			824
7507	2	87.33	4*48*54	11/ 8/64	508	12.1	216.9	1.6	4.2	61.510	-45.3	5*25* 3	36.2			824
7516	2	-134.70	19*25*31	11/ 8/64	508	11.0	217.1	4.3	4.3	61.458	-69.9	19*34* 3	8.5			825
7519	1	151.28	0*17*43	11/ 9/64	509	10.7	217.3	5.2	4.4	61.441	-40.4	0*37*33	19.8			825
7522	2	77.26	5* 9*55	11/ 9/64	509	10.3	217.4	6.2	4.4	61.424	-27.7	5*47*33	37.6			825
7529	1	-95.43	16*31*44	11/ 9/64	509	9.5	217.6	8.2	4.5	61.384	-87.1	16*42* 3	10.3			826
7531	2	-144.76	19*46*32	11/ 9/64	509	9.3	217.7	8.8	4.6	61.372	-63.5	19*56* 3	9.5			826
7536	2	91.85	3*53*32	11/10/64	510	8.8	218.0	10.4	4.7	61.344	-58.0	4*29* 3	35.5			826
7545	2	-130.18	18*30* 9	11/10/64	510	7.9	218.2	12.9	4.8	61.293	-69.2	18*37*33	7.4			827
7548	3	155.80	23*22*21	11/10/64	510	7.8	218.3	13.7	4.9	61.276	-53.3	23*41*33	19.2			827
7551	2	81.78	4*14*33	11/11/64	511	7.5	218.3	14.5	5.0	61.259	-43.4	4*51* 3	36.5			827
7558	1	-90.91	15*36*22	11/11/64	511	7.0	218.3	16.2	5.2	61.219	-87.8	15*46* 3	9.7			828
7560	2	-140.25	18*51*10	11/11/64	511	6.9	218.3	16.7	5.3	61.208	-64.1	19* 0* 3	8.9			828
7562	1	170.40	22* 5*58	11/11/64	511	6.8	218.4	17.2	5.3	61.195	-65.1	22*36* 3	30.1			828
7564	3	121.06	1*20*46	11/12/64	512	6.7	218.5	17.7	5.4	61.180	-27.3	1*43* 3	22.3			828
7565	3	96.38	2*58*11	11/12/64	512	6.8	218.4	18.0	5.4	61.173	-63.8	3*24* 3	25.9			828
7573	1	-100.97	15*57*23	11/12/64	512	7.7	218.5	19.1	6.0	61.115	-87.6	16* 8* 3	10.7			829
7575	2	-150.32	19*12*11	11/12/64	512	7.9	218.4	19.4	6.1	61.101	-63.0	19*23* 3	10.9			829

READOUT						ORBIT					TIME INTERVAL OF FILE ON FMR TAPE					
		SATELLITE EQUATOR CROSSING AT ASCENDING NODE (AND)				SPIN VECTOR ATTITUDE					BEGIN	END		DROPOUTS, MINUTES W/R/T AND		
ORBIT NO.	CDA STA	EARTH LONGI -TUDE (DEG)	HOURS MINUTES SECONDS (GMT)	CALENDAR DATE	TIROS DAY	DECLI -NA -TION (DEG)	RIGHT ASCEN -SION (DEG)	MINI -MUM NADIR (DEG)	TOT (MIN. AFTER AND)	SPIN RATE (DEG /SEC)	MINU -TES W/R/T AND	HOURS MINUTES SECONDS (GMT)	MINU -TES W/R/T AND	FROM-	TO-	FMR TAPE REEL NO.
7580	2	66.32	3*19*12	11/13/64	513	8.4	218.4	20.0	6.5	61.066	-50.6	3*55*33	36.4			829
7589	2	-135.72	17*55*48	11/13/64	513	9.3	218.4	21.2	7.1	61.005	-70.1	18* 5* 3	9.3			830
7592	3	150.26	22*48* 0	11/13/64	513	9.6	218.4	21.6	7.3	60.986	-53.8	23* 7*33	19.6			830
7594	3	100.92	2* 2*49	11/14/64	514	9.9	218.4	21.8	7.4	60.973	-54.7	2*28*33	25.7			830
7604	2	-145.78	18*16*49	11/14/64	514	10.9	218.5	23.1	8.2	60.909	-70.2	18*27* 3	10.2			831
7606	1	164.86	21*31*38	11/14/64	514	11.1	218.4	23.3	8.3	60.896	-63.8	22* 2*33	30.9			831
7609	2	90.85	2*23*50	11/15/64	515	11.4	218.5	23.6	8.5	60.877	-46.8	2*59* 3	35.2			831
7618	2	-131.18	17* 0*26	11/15/64	515	12.5	218.6	24.7	9.2	60.822	-63.4	17* 8* 3	7.6			832
7621	3	154.79	21*52*39	11/15/64	515	12.8	218.6	25.0	9.4	60.805	-55.4	22*11*33	18.9			832
7624	2	80.78	2*44*51	11/16/64	516	13.1	218.6	25.3	9.6	60.787	-43.8	3*22* 3	37.2			832
7631	1	-91.91	14* 6*39	11/16/64	516	13.9	218.8	26.1	10.2	60.746	-86.8	14*16* 3	9.4			833
7633	2	-141.25	17*21*28	11/16/64	516	14.1	218.8	26.3	10.4	60.734	-64.2	17*31* 3	9.6			833
7638	3	95.38	1*28*28	11/17/64	517	15.8	219.0	26.4	10.8	60.706	15.0	1*54*33	26.1			833
7665	1	149.26	21*18*18	11/18/64	518	30.8	225.6	21.0	16.5	60.557	-55.7	21*52* 3	33.8			834
7668	2	75.24	2*10*30	11/19/64	519	32.6	226.8	20.2	17.0	60.541	-66.0	2*49*33	39.1			834
7675	1	-97.45	13*32*18	11/19/64	519	35.4	231.1	19.5	18.8	60.503	-87.8	13*43* 3	10.8			835
7676	1	-122.12	15* 9*43	11/19/64	519	35.6	231.5	19.5	18.9	60.498	-75.2	15*24* 3	14.3			835
7677	2	-146.79	16*47* 7	11/19/64	519	35.9	231.7	19.4	19.1	60.493	-71.7	16*57*33	10.4			835
7680	1	139.19	21*39*19	11/19/64	519	36.8	232.4	19.0	19.5	60.477	-59.3	22*14* 3	34.7			835
7682	2	85.85	0*54* 7	11/20/64	520	37.7	233.6	18.6	19.8	60.466	-56.0	1*30* 3	35.9			835
7690	1	-107.51	13*53*19	11/20/64	520	39.4	239.7	18.1	21.8	60.424	-77.6	14* 5* 3	11.7			836
7692	2	-156.86	17* 8* 7	11/20/64	520	39.6	240.5	18.1	22.1	60.413	-73.8	17*19* 3	10.9			836
7694	1	153.79	20*22*56	11/20/64	520	39.9	241.1	18.1	22.4	60.403	-63.0	20*54*33	31.6			836
7695	1	129.12	22* 0*20	11/20/64	520	40.1	241.6	18.0	22.5	60.398	-54.0	22*35*33	35.2			836
7696	3	104.45	23*37*44	11/20/64	520	40.4	242.2	17.8	22.7	60.392	-49.5	0* 2*33	24.8			836
7697	2	79.78	1*15* 8	11/21/64	521	40.6	243.1	17.6	22.9	60.387	-60.7	1*52* 3	36.9			836

READOUT						ORBIT					TIME INTERVAL OF FILE ON FMR TAPE				
		SATELLITE EQUATOR CROSSING AT ORBITAL ASCENDING NODE (ANO)				SPIN VECTOR ATTITUDE					BEGIN	END		DROPOUTS, MINUTES W/R/T ANO	
ORBIT NO.	CDA STA	EARTH LONGI-TUDE (DEG)	HOURS MINUTES SECONDS (GMT)	CALENDAR DATE	TIROS DAY	DECLI-NA-TION (DEG)	RIGHT ASCEN-SION (DEG)	MINI-MUM NADIR (DEG)	TOT (MIN. AFTER ANO)	SPIN RATE (DEG /SEC)	MINU-TES W/R/T ANO	HOURS MINUTES SECONDS (GMT)	MINU-TES W/R/T ANO	FROM-	TO-	FMR TAPE REEL NO.
7704	1	-92.91	12*36*53	11/21/64	521	40.5	249.2	17.5	24.6	60.350	-84.3	12*45*33	8.7			837
7705	1	-117.58	14*14*20	11/21/64	521	40.4	249.6	17.7	24.8	60.345	-75.9	14*26*33	12.2			837
7706	2	-142.25	15*51*44	11/21/64	521	40.3	250.0	17.8	24.9	60.340	-71.5	15*59*33	7.8			837
7709	1	143.72	20*43*57	11/21/64	521	40.2	251.0	17.9	25.3	60.324	19.5	21*17*33	33.6			837
7710	3	119.05	22*21*21	11/21/64	521	40.3	251.6	17.8	25.4	60.319	-41.0	22*44*33	23.2			837
7711	2	94.38	23*58*45	11/21/64	521	40.3	252.3	17.7	25.6	60.313	-62.8	0*33*33	34.8			837
7719	1	-102.98	12*57*57	11/22/64	522	38.5	258.6	18.0	27.5	60.271	-77.0	13* 9* 3	11.1			838
7720	2	-127.65	14*35*21	11/22/64	522	38.2	258.9	18.2	27.7	60.266	-72.5	14*42* 3	6.7			838
7721	2	-152.32	16*12*45	11/22/64	522	37.9	259.2	18.4	27.8	60.260	-79.3	16*22*33	9.8			838
7723	1	158.33	19*27*34	11/22/64	522	37.5	259.7	18.7	28.1	60.250	-43.3	19*58*33	31.0			838
7724	1	133.65	21* 4*58	11/22/64	522	37.4	260.1	18.8	28.2	60.244	-54.4	21*40* 3	35.1			838
7725	2	108.98	22*42*22	11/22/64	522	37.3	260.7	18.7	28.4	60.239	-48.5	23*16* 3	33.7			838
7726	2	84.31	0*19*46	11/23/64	523	37.1	261.4	18.6	28.6	60.227	-50.0	0*57* 3	37.3			838
7733	1	-88.38	11*41*34	11/23/64	523	34.1	266.0	19.3	30.3	60.179	-84.3	11*51*33	10.0			839
7735	2	-137.72	14*56*22	11/23/64	523	33.3	266.3	19.8	30.7	60.165	-77.9	15* 3*33	7.2			839
7738	1	148.26	19*48*35	11/23/64	523	33.2	266.5	19.8	30.9	60.146	-47.9	20*21*33	33.0			839
7739	1	123.59	21*25*59	11/23/64	523	33.1	266.6	19.7	31.0	60.139	-52.6	22* 2*33	36.6			839
7740	3	98.92	23* 3*23	11/23/64	523	33.1	266.7	19.7	31.1	60.132	-48.7	23*28*33	25.2			839
7748	1	-98.45	12* 2*35	11/24/64	524	32.5	267.4	19.1	31.8	60.080	-72.4	12*11*33	9.0			840
7749	1	-123.12	13*39*59	11/24/64	524	32.4	267.5	19.0	31.8	60.074	-76.4	13*53*33	13.6			840
7750	2	-147.79	15*17*23	11/24/64	524	32.4	267.5	18.9	31.9	60.068	-71.2	15*27* 3	9.7			840
7752	1	162.85	18*32*11	11/24/64	524	32.3	267.6	18.8	32.1	60.055	-63.2	19* 2*33	30.4			840
7753	1	138.18	20* 9*36	11/24/64	524	32.2	267.7	18.7	32.1	60.049	-55.2	20*45* 3	35.5			840
7754	3	113.51	21*47* 0	11/24/64	524	32.2	267.7	18.6	32.2	60.042	13.3	22*10*13	23.2			840
7755	2	88.84	23*24*24	11/24/64	524	32.1	267.8	18.5	32.3	60.036	-60.4	0* 1*33	37.2			840
7763	1	-108.52	12*23*36	11/25/64	525	31.5	268.5	17.9	32.9	59.986	-80.0	12*34*33	11.0			841

READOUT						ORBIT					TIME INTERVAL OF FILE ON FMR TAPE				
		SATELLITE EQUATOR CROSSING AT ORBITAL ASCENDING NODE (AND)				SPIN VECTOR ATTITUDE					BEGIN	END		DROPOUTS, MINUTES W/R/T AND		
ORBIT NO.	CDA STA	EARTH LONGI-TUDE (DEG)	HOURS MINUTES SECONDS (GMT)	CALENDAR DATE	TIROS DAY	DECLI-NA-TION (DEG)	RIGHT ASCEN-SION (DEG)	MINI-MUM NADIR (DEG)	TOT (MIN. AFTER AND)	SPIN RATE (DEG /SEC)	MINU-TES W/R/T AND	HOURS MINUTES SECONDS (GMT)	MINU-TES W/R/T AND	FROM-	TO-	FMR TAPE REEL NO.
7764	2	-133.19	14* 1* 0	11/25/64	525	31.4	268.5	17.8	33.0	59.980	-73.3	14* 8*33	7.6			841
7765	2	-157.86	15*38*24	11/25/64	525	31.3	268.6	17.7	33.1	59.974	-77.1	15*49*33	11.2			841
7767	1	152.79	18*53*12	11/25/64	525	31.2	268.6	17.6	33.2	59.962	-60.7	19*26* 3	32.9			841
7769	2	103.44	22* 8* 0	11/25/64	525	31.1	268.8	17.4	33.4	59.950	-38.4	22*41*33	33.6			841
7770	2	78.78	23*45*25	11/25/64	525	31.0	268.9	17.3	33.5	59.944	-50.3	0*22*33	37.1			841
7777	1	-93.91	11* 7*13	11/26/64	526	30.4	269.4	16.6	34.0	59.902	-87.7	11*16*33	9.3			842
7778	1	-118.58	12*44*37	11/26/64	526	30.3	269.4	16.6	34.1	59.896	-32.6	12*57*33	12.9			842
7779	2	-143.25	14*22* 1	11/26/64	526	30.2	269.4	16.5	34.2	59.890	-73.1	14*30*33	8.5			842
7781	1	167.39	17*36*49	11/26/64	526	30.1	269.5	16.3	34.3	59.878	-66.0	18* 6*33	29.7			842
7782	1	142.72	19*14*13	11/26/64	526	30.1	269.5	16.2	34.4	59.872	-4.8	19*49* 3	34.8			842
7783	3	118.05	20*51*37	11/26/64	526	30.0	269.6	16.1	34.4	59.866	-50.7	21*14*33	22.9			842
7784	2	93.38	22*29* 1	11/26/64	526	29.9	269.7	16.0	34.5	59.860	-61.8	23* 5* 3	36.0			842
7792	1	-103.98	11*28*14	11/27/64	527	29.2	270.4	15.1	35.2	59.813	-77.2	11*37*33	9.3			843
7794	2	-153.32	14*43* 2	11/27/64	527	29.0	270.5	14.9	35.3	59.802	-65.0	14*53* 3	10.0			843
7799	2	83.31	22*50* 2	11/27/64	527	28.7	270.7	14.4	35.5	59.773	-40.3	23*26*33	36.5			843
7806	1	-89.37	10*11*51	11/28/64	528	28.1	271.1	13.5	36.1	59.732	-86.7	10*20*33	8.7			844
7808	2	-138.72	13*26*39	11/28/64	528	28.0	271.2	13.3	36.2	59.720	-64.4	13*34*33	7.9			844
7813	2	97.92	21*33*39	11/28/64	528	27.7	271.3	12.6	36.5	59.692	-42.1	22* 7*33	33.9			844
7822	2	-124.11	12*10*16	11/29/64	529	27.0	271.6	11.5	37.1	59.640	-65.0	12*17* 3	6.8			845
7825	1	161.87	17* 2*28	11/29/64	529	26.9	271.6	11.1	37.3	59.622	-29.6	17*33* 3	30.6			845
7826	1	137.19	18*39*52	11/29/64	529	26.8	271.6	11.0	37.3	59.616	-38.9	19*13*33	33.7			845
7827	3	112.52	20*17*16	11/29/64	529	26.7	271.6	10.9	37.4	59.611	-50.3	20*40*33	23.3			845
7836	1	-109.51	10*53*52	11/30/64	530	26.1	271.9	9.6	38.0	59.558	-81.7	11* 4*33	10.7			846
7838	2	-158.85	14* 8*41	11/30/64	530	26.0	271.9	9.4	38.1	59.546	-61.6	14*20*33	11.9			846
7843	2	77.79	22*15*41	11/30/64	530	26.0	271.8	8.7	38.3	59.517	-43.9	22*53*33	37.9			846
7850	1	-94.93	9*37*29	12/ 1/64	531	26.8	271.6	7.1	38.4	59.475	-86.4	9*46*33	9.1			847

READOUT						ORBIT					TIME INTERVAL OF FILE ON FMR TAPE					
		SATELLITE EQUATOR CROSSING AT ORBITAL ASCENDING NODE (ANO)				SPIN VECTOR ATTITUDE					BEGIN	END		DROPOUTS, MINUTES W/R/T ANO		
ORBIT NO.	CLA STA	EARTH LONGI-TUDE (DEG)	HOURS MINUTES SECONDS (GMT)	CALENDAR DATE	TIROS DAY	DECLI-NA-TION (DEG)	RIGHT ASCEN-SION (DEG)	MINI-MUM NADIR (DEG)	TOT (MIN. AFTER ANO)	SPIN RATE (DEG /SEC)	MINU-TES W/R/T ANO	HOURS MINUTES SECONDS (GMT)	MINU-TES W/R/T ANO	FROM-	TO-	FMR TAPE REEL NO.
7851	1	-119.60	11*14*53	12/ 1/64	531	26.9	271.7	6.8	38.4	59.469	-76.6	11*27*33	12.7			847
7852	2	-144.27	12*52*17	12/ 1/64	531	27.0	271.7	6.6	38.4	59.463	-72.9	13* 3* 3	10.8			847
7855	1	141.71	17*44*29	12/ 1/64	531	27.3	271.7	5.9	38.5	59.445	-44.3	18*18* 3	33.6			847
7857	2	92.36	20*59*18	12/ 1/64	531	27.4	271.7	5.4	38.6	59.432	-39.1	21*33*33	34.3			847
7865	1	-105.00	9*58*30	12/ 2/64	532	28.4	271.6	3.5	38.7	59.383	-73.1	10* 8*33	10.1			848
7866	2	-129.67	11*35*54	12/ 2/64	532	28.5	271.6	3.3	38.7	59.377	-74.6	11*43* 0	7.1			848
7867	2	-154.34	13*13*18	12/ 2/64	532	28.6	271.6	3.0	38.7	59.371	-77.3	13*23*33	10.3			848
7869	1	156.31	16*28* 6	12/ 2/64	532	28.8	271.7	2.5	38.7	59.358	-62.0	16*59* 3	31.0			848
7870	1	131.64	18* 5*30	12/ 2/64	532	28.9	271.6	2.3	38.8	59.352	-53.9	18*40* 3	34.6			848
7872	2	82.30	21*20*18	12/ 2/64	532	29.1	271.6	1.8	38.8	59.339	-39.4	21*56*33	36.3			848
7880	1	-115.06	10*19*31	12/ 3/64	533	30.2	271.4	-0.1	38.8	59.288	-40.5	10*31*33	12.0			849
7884	1	146.24	16*49* 7	12/ 3/64	533	30.6	271.4	-1.1	38.9	59.261	-59.0	17*22* 3	32.9			849
7886	2	96.90	20* 3*55	12/ 3/64	533	30.9	271.3	-1.5	38.9	59.248	-40.8	20*37*33	33.6			849
7896	2	-149.80	12*17*55	12/ 4/64	534	32.3	271.2	-4.0	38.9	59.180	-57.1	12*27*33	9.6			850
7899	1	136.18	17*10* 8	12/ 4/64	534	32.6	271.2	-4.8	38.9	59.159	-53.2	17*44* 3	33.9			850
7901	2	86.84	20*24*56	12/ 4/64	534	32.9	271.1	-5.2	39.0	59.145	-37.5	21* 0*33	35.6			850
7911	2	-159.86	12*38*56	12/ 5/64	535	34.4	270.9	-7.6	38.8	59.073	-54.9	12*50*33	11.6			851
7913	1	150.78	15*53*44	12/ 5/64	535	34.6	270.9	-8.1	38.8	59.059	4.0	16*25*33	31.8			851
7915	3	101.44	19* 8*32	12/ 5/64	535	34.9	270.9	-8.6	38.8	59.044	-39.5	19*34* 3	25.5			851
7925	2	-145.26	11*22*33	12/ 6/64	536	36.5	270.7	-11.0	38.7	58.967	-67.1	11*30*33	8.0			852
7927	1	165.39	14*37*21	12/ 6/64	536	36.8	270.7	-11.6	38.7	58.952	-0.3	15* 7*33	30.2			852
7928	1	140.72	16*14*45	12/ 6/64	536	36.9	270.7	-11.8	38.7	58.944	-54.5	16*47*33	32.8			852
7930	2	91.38	19*29*33	12/ 6/64	536	37.2	270.6	-12.3	38.7	58.928	-40.2	20* 4*33	35.0			852
7940	2	-155.32	11*43*34	12/ 7/64	537	38.9	270.4	-14.7	38.6	58.846	-49.2	11*54* 3	10.5			853
7942	1	155.32	14*58*22	12/ 7/64	537	39.2	270.4	-15.2	38.5	58.829	-63.3	15*29*33	31.2			853
7943	1	130.65	16*35*46	12/ 7/64	537	39.4	270.5	-15.5	38.6	58.820	-5.8	17*10*33	34.8			853

READOUT						ORBIT					TIME INTERVAL OF FILE ON FMR TAPE					
		SATELLITE EQUATOR CROSSING AT ORBITAL ASCENDING NODE (ANO)				SPIN VECTOR ATTITUDE					BEGIN	END		DROPOUTS, MINUTES W/R/T ANO		
ORBIT NO.	CCA STA	EARTH LONGI-TUDE (DEG)	HOURS MINUTES SECONDS (GMT)	CALENDAR DATE	TIROS DAY	DECLI-NA-TION (DEG)	RIGHT ASCEN-SION (DEG)	MINI-MUM NADIR (DEG)	TOT (MIN. AFTER ANO)	SPIN RATE (DEG /SEC)	MINU-TES W/R/T ANO	HOURS MINUTES SECONDS (GMT)	MINU-TES W/R/T ANO	FROM-	TO-	FMR TAPE REEL NO.
7945	2	81.31	19*50*34	12/ 7/64	537	39.7	270.4	-15.9	38.5	58.803	-39.6	20*29* 3	38.5			853
7954	1	-140.75	10*27*10	12/ 8/64	538	41.3	270.3	-18.1	38.3	58.740	-64.6	10*34*33	7.4			854
7957	1	145.23	15*19*23	12/ 8/64	538	41.8	270.3	-18.8	38.3	58.716	-59.0	15*51*33	32.2			854
7959	2	95.89	18*34*11	12/ 8/64	538	42.1	270.2	-19.3	38.3	58.700	-41.6	19* 8*33	34.4			854
7971	1	159.83	14* 2*59	12/ 9/64	539	44.3	270.0	-22.1	37.9	58.607	-67.1	14*33*33	30.6			855
7984	2	-160.88	11* 9*12	12/10/64	540	43.2	269.2	-23.6	38.4	58.506	-59.0	11*21*33	12.4			856
7986	1	145.77	14*24* 0	12/10/64	540	43.1	269.0	-23.7	38.5	58.491	5.5	14*56*33	32.6			856
8000	1	164.37	13* 7*36	12/11/64	541	41.3	268.1	-24.9	39.2	58.383	-68.2	13*38* 3	30.5			857
8003	2	90.36	17*59*48	12/11/64	541	40.9	267.9	-25.1	39.3	58.360	-33.3	18*35* 3	35.3			857
8013	2	-156.34	10*13*49	12/12/64	542	39.6	267.1	-26.0	39.8	58.284	-56.6	10*24*33	10.7			858
8018	2	80.29	18*20*49	12/12/64	542	39.1	266.8	-26.4	40.1	58.246	-31.8	18*58* 3	37.2			858
8027	2	-141.74	8*57*26	12/13/64	543	37.9	266.0	-27.1	40.5	58.179	-63.3	9* 5*33	8.1			859
8032	2	94.90	17* 4*26	12/13/64	543	37.4	265.6	-27.5	40.7	58.141	-31.6	17*39* 3	34.6			859
8042	2	-151.80	9*18*26	12/14/64	544	36.1	264.7	-28.4	41.2	58.066	-56.1	9*28*33	10.1			860
8045	1	134.17	14*10*38	12/14/64	544	35.8	264.4	-28.6	41.4	58.044	-50.5	14*45* 3	34.4			860
8047	2	84.83	17*25*26	12/14/64	544	35.6	264.3	-28.8	41.4	58.029	-38.0	18* 2* 3	36.6			860
8059	1	148.77	12*54*15	12/15/64	545	34.2	263.2	-29.9	42.0	57.940	-63.5	13*27*33	33.3			861
8062	2	74.76	17*46*27	12/15/64	545	33.1	263.0	-30.0	42.3	57.918	-29.8	18*25*33	39.1			861
8069	1	-97.93	5* 8*15	12/16/64	546	29.9	261.8	-29.5	43.3	57.867	-4.5	5*17* 3	8.8			862
8070	1	-122.60	6*45*39	12/16/64	546	29.6	261.5	-29.3	43.4	57.860	-76.0	7* 0* 3	14.4			862
8071	2	-147.27	8*23* 3	12/16/64	546	29.3	261.2	-29.2	43.5	57.852	-71.0	8*32* 3	9.0			862
8073	3	163.38	11*37*51	12/16/64	546	28.6	260.7	-28.9	43.7	57.838	-63.1	11*56*33	18.7			862
8075	3	114.03	14*52*40	12/16/64	546	27.9	260.3	-28.7	43.8	57.823	-18.8	15*15*33	22.9			862
8076	2	89.36	16*30* 4	12/16/64	546	27.5	260.3	-28.6	44.0	57.816	-60.1	17* 5* 3	35.0			862
8083	1	-83.33	3*51*52	12/17/64	547	24.3	259.4	-28.2	45.0	57.765	-6.6	4* 0* 3	8.2			863
8084	1	-108.00	5*29*16	12/17/64	547	23.9	259.1	-28.0	45.1	57.758	1.6	5*40* 3	10.8			863

READOUT						ORBIT					TIME INTERVAL OF FILE ON FMR TAPE				
		SATELLITE EQUATOR CROSSING AT ORBITAL ASCENDING NODE (ANO)				SPIN VECTOR ATTITUDE					BEGIN	END		DROPOUTS, MINUTES W/R/T ANO		
ORBIT NO.	CCA STA	EARTH LONGI-TUDE (DEG)	HOURS MINUTES SECONDS (GMT)	CALENDAR DATE	TIROS DAY	DECLI-NA-TION (DEG)	RIGHT ASCEN-SION (DEG)	MINI-MUM NADIR (DEG)	TOT (MIN. AFTER ANO)	SPIN RATE (DEG /SEC)	MINU-TES W/R/T ANO	HOURS MINUTES SECONDS (GMT)	MINU-TES W/R/T ANO	FROM-	TO-	FMR TAPE REEL NO.
8085	2	-132.67	7* 6*40	12/17/64	547	23.6	258.8	-27.9	45.2	57.750	-6.7	7*14* 3	7.4			863
8086	2	-157.34	8*44* 4	12/17/64	547	23.2	258.5	-27.7	45.3	57.743	-6.7	8*55* 3	11.0			863
8089	3	128.64	13*36*16	12/17/64	547	22.4	257.9	-27.3	45.6	57.721	-6.1	13*57*33	21.3			863
8090	3	103.97	15*13*40	12/17/64	547	22.3	257.8	-27.3	45.6	57.714	8.8	15*38* 3	24.4			863
8091	2	79.30	16*51* 4	12/17/64	547	22.2	257.8	-27.4	45.7	57.707	-23.6	17*29* 3	38.0			863
8098	1	-93.39	4*12*52	12/18/64	548	21.3	257.3	-28.2	46.1	57.656	-4.9	4*21* 3	8.2			864
8099	1	-118.06	5*50*16	12/18/64	548	21.2	257.2	-28.2	46.2	57.649	-4.9	6* 3*28	13.2			864
8114	2	-128.13	6*11*17	12/19/64	549	19.5	255.9	-29.7	47.0	57.542	-6.1	6*18* 3	6.8			865
8115	2	-152.80	7*48*41	12/19/64	549	19.4	255.8	-29.7	47.0	57.534	-5.7	7*58*33	9.9			865
8118	3	133.18	12*40*53	12/19/64	549	19.2	255.5	-30.0	47.1	57.513	-3.8	13* 3*58	23.1			865
8127	1	-88.85	3*17*29	12/20/64	550	18.0	254.9	-30.9	47.7	57.449	-0.8	3*27* 3	9.6			866
8128	1	-113.52	4*54*53	12/20/64	550	17.9	254.8	-31.0	47.7	57.442	-3.2	5* 6*33	11.7			866
8129	2	-138.19	6*32*17	12/20/64	550	17.9	254.6	-31.1	47.8	57.435	-4.3	6*40* 3	7.8			866
8133	3	123.12	13* 1*54	12/20/64	550	17.5	254.2	-31.4	47.9	57.407	-4.3	13*23*33	21.7			866
8142	1	-98.91	3*38*30	12/21/64	551	16.5	253.6	-32.3	48.5	57.343	-3.9	3*47*33	9.1			867
8143	1	-123.59	5*15*54	12/21/64	551	16.4	253.4	-32.4	48.5	57.336	-6.3	5*30* 3	14.2			867
8144	2	-148.26	6*53*18	12/21/64	551	16.3	253.3	-32.5	48.6	57.329	4.6	7* 2*33	9.3			867
8147	3	137.72	11*45*30	12/21/64	551	16.1	253.0	-32.7	48.7	57.308	-2.5	12* 5*33	20.1			867
8148	3	113.05	13*22*54	12/21/64	551	16.0	252.9	-32.8	48.7	57.301	0.4	13*46* 3	23.2			867
8156	1	-84.33	2*22* 6	12/22/64	552	15.1	252.3	-33.7	49.2	57.245	-2.6	2*30*33	8.5			868
8157	1	-109.00	3*59*30	12/22/64	552	15.0	252.2	-33.7	49.3	57.238	-1.8	4*10* 3	10.6			868
8158	2	-133.68	5*36*55	12/22/64	552	14.9	252.1	-33.8	49.3	57.231	-2.3	5*44* 3	7.1			868
8159	2	-158.35	7*14*19	12/22/64	552	14.8	252.0	-33.9	49.4	57.225	-2.3	7*25*33	11.2			868
8161	3	152.30	10*29* 7	12/22/64	552	14.7	251.7	-34.0	49.4	57.211	-2.4	10*48* 3	18.9			868
8162	3	127.63	12* 6*30	12/22/64	552	14.6	251.6	-34.1	49.4	57.204	-0.8	12*28*33	22.1			868
8171	1	-94.40	2*43* 7	12/23/64	553	13.7	250.9	-35.0	50.0	57.141	-1.1	2*52* 3	8.9			869

READOUT						ORBIT					TIME INTERVAL OF FILE ON FMR TAPE					
		SATELLITE EQUATOR CROSSING AT ORBITAL ASCENDING NODE (AND)				SPIN VECTOR ATTITUDE					BEGIN	END		DROPOUTS, MINUTES W/R/T AND		
ORBIT NO.	COA STA	EARTH LONGI-TUDE (DEG)	HOURS MINUTES SECONDS (GMT)	CALENDAR DATE	TIROS DAY	DECLI-NA-TION (DEG)	RIGHT ASCEN-SION (DEG)	MINI-MUM NADIR (DEG)	TOT (MIN. AFTER AND)	SPIN RATE (DEG /SEC)	MINU-TES W/R/T AND	HOURS MINUTES SECONDS (GMT)	MINU-TES W/R/T AND	FROM-	TO-	FMR TAPE REEL NO.
8172	1	-119.07	4*20*31	12/23/64	553	13.7	250.8	-35.1	50.0	57.134	-4.9	4*33*33	13.0			869
8173	2	-143.74	5*57*55	12/23/64	553	13.6	250.6	-35.2	50.1	57.127	-0.9	6* 6*33	8.6			869
8176	3	142.24	10*50* 7	12/23/64	553	13.5	250.3	-35.4	50.2	57.107	-1.2	11* 9*33	19.4			869
8177	3	117.57	12*27*31	12/23/64	553	13.4	250.2	-35.5	50.2	57.100	-1.7	12*50* 3	22.5			869
8188	2	-153.80	6*18*55	12/24/64	554	11.5	248.5	-36.0	50.9	57.024	3.0	6*28*33	9.6			870
8190	3	156.84	9*33*43	12/24/64	554	10.4	247.5	-35.1	51.1	57.011	1.0	9*52* 3	18.3			870
8191	1	132.17	11*11* 8	12/24/64	554	9.8	247.2	-34.7	51.2	57.004	-8.3	11*46*33	35.4			870
8193	2	82.83	14*25*56	12/24/64	554	8.3	246.9	-33.9	51.6	56.990	-13.7	15* 2* 3	36.1			870
8220	3	136.71	10*15*44	12/26/64	556	-10.3	241.8	-24.1	56.5	56.807	-57.3	10*36* 3	20.3			871
8221	3	112.04	11*53* 8	12/26/64	556	-11.0	241.7	-23.7	56.7	56.800	-28.2	12*16*33	23.4			871
8229	1	-65.32	0*52*21	12/27/64	557	-17.1	242.4	-21.4	58.5	56.746	-90.6	1* 0*33	8.2			872
8230	1	-109.99	2*29*45	12/27/64	557	-17.7	242.3	-21.1	58.7	56.740	-78.9	2*41* 3	11.3			872
8234	1	151.32	8*59*21	12/27/64	557	-19.8	241.4	-19.7	59.2	56.713	-34.3	9*31* 3	31.7			872
8235	1	126.65	10*36*45	12/27/64	557	-20.5	241.3	-19.3	59.3	56.706	-54.3	11*12*33	35.8			872
8245	1	-120.05	2*50*45	12/28/64	558	-27.5	243.2	-16.7	61.5	56.640	-55.3	3* 3*33	12.8			873
8249	1	141.25	9*20*21	12/28/64	558	-29.5	242.8	-15.5	62.0	56.613	-37.7	9*54* 3	33.7			873
8259	1	-105.45	1*34*21	12/29/64	559	-36.1	246.6	-13.1	64.3	56.547	-57.7	1*44* 3	9.7			874
8261	2	-154.80	4*49*10	12/29/64	559	-36.9	247.0	-12.9	64.6	56.534	-64.7	4*59*33	10.4			874
8263	1	155.85	8* 3*58	12/29/64	559	-37.7	247.2	-12.5	64.9	56.520	-62.1	8*35*33	31.6			874
8273	1	-90.85	0*17*58	12/30/64	560	-42.8	253.7	-11.1	67.1	56.455	-58.5	0*26* 3	8.1			875
8274	1	-115.52	1*55*22	12/30/64	560	-43.0	254.1	-11.1	67.3	56.448	-78.1	2* 7*33	12.2			875
8278	1	145.78	8*24*58	12/30/64	560	-44.3	255.4	-10.7	67.9	56.422	10.4	8*57*33	32.6			875
8288	1	-100.92	0*38*58	12/31/64	561	-47.2	264.8	-10.0	70.3	56.357	-57.3	0*48* 2	9.1			876
8290	2	-150.26	3*53*46	12/31/64	561	-47.3	265.9	-10.2	70.7	56.344	-74.3	4* 3* 2	9.3			876
8292	1	160.39	7* 8*34	12/31/64	561	-47.5	266.8	-10.2	70.9	56.331	-65.3	7*39* 0	30.4			876
8332	1	-106.44	0* 4*35	1/ 3/65	564	-39.7	299.0	-12.2	79.5	56.073	-48.0	0*15* 3	10.5			877

READOUT						ORBIT					TIME INTERVAL OF FILE ON FMR TAPE					
		SATELLITE EQUATOR CROSSING AT ORBITAL ASCENDING NODE (ANO)				SPIN VECTOR ATTITUDE					BEGIN	END		DROPOUTS, MINUTES W/R/T ANO		
ORBIT NO.	COA STA	EARTH LONGI -TUDE (DEG)	HOURS MINUTES SECONDS (GMT)	CALENDAR DATE	TIROS DAY	DECLI -NA -TION (DEG)	RIGHT ASCEN -SION (DEG)	MINI -MUM NADIR (DEG)	TOT (MIN. AFTER ANO)	SPIN RATE (DEG /SEC)	MINU -TES W/R/T ANO	HOURS MINUTES SECONDS (GMT)	MINU -TES W/R/T ANO	FROM-	TO-	FMR TAPE REEL NO.
8346	1	-91.83	22*48*12	1/ 3/65	564	-31.8	304.8	-14.9	82.5	55.984	-39.4	22*56*33	8.4			878
8361	1	-101.90	23* 9*12	1/ 4/65	565	-21.8	307.8	-18.8	85.7	55.889	-58.6	23*18*33	9.4			879
8362	2	-126.57	0*46*23	1/ 5/65	566	-20.9	307.2	-19.6	86.3	55.883	-76.0	0*53*33	7.2			879
8377	2	-136.66	1* 7*36	1/ 6/65	567	-10.4	307.2	-24.5	88.7	55.789	-74.0	1*15*33	8.0			880
8378	2	-161.33	2*45* 0	1/ 6/65	567	-9.8	306.9	-25.0	88.9	55.782	-78.3	2*57*33	12.6			880
8392	2	-146.72	1*28*37	1/ 7/65	568	-0.8	305.6	-29.6	91.5	55.695	-71.0	1*37*33	8.9			881
8404	1	-82.77	20*57*25	1/ 7/65	568	-0.1	304.7	-28.3	92.1	55.620	-90.3	21* 5*33	8.1			882
8405	1	-107.44	22*54*49	1/ 7/65	568	-0.1	304.7	-28.2	92.1	55.614	-76.8	22*45*33	10.7			882
8406	2	-132.11	0*12*13	1/ 8/65	569	-0.1	304.6	-28.1	92.2	55.608	-74.1	0*20*33	8.3			882
8407	2	-156.78	1*49*37	1/ 8/65	569	-0.	304.5	-28.0	92.2	55.602	-75.8	2* 1*33	11.9			882
8419	1	-92.84	21*18*25	1/ 8/65	569	0.5	303.7	-26.5	92.7	55.528	-54.0	21*28* 3	9.6			883
8420	1	-117.51	22*55*49	1/ 8/65	569	0.6	303.6	-26.4	92.8	55.522	-75.2	23* 8*33	12.7			883
8421	2	-142.18	0*33*13	1/ 9/65	570	0.7	303.7	-26.1	92.9	55.515	-71.1	0*42*33	9.3			883
8434	1	-102.90	21*39*25	1/ 9/65	570	1.5	303.0	-24.4	93.5	55.436	-45.6	21*50* 3	10.6			884
8436	2	-152.24	0*54*13	1/10/65	571	1.5	303.0	-24.1	93.6	55.423	-72.7	1* 4*33	10.3			884
8449	1	-112.96	22* 0*25	1/10/65	571	2.4	302.2	-21.8	94.1	55.344	-79.7	22*12*33	12.1			885
8450	2	-137.64	23*37*49	1/10/65	571	3.1	301.8	-22.4	94.3	55.338	-70.6	23*45*33	7.7			885
8463	1	-98.42	20*44* 1	1/11/65	572	13.3	299.4	-26.9	97.0	55.259	-58.8	20*54* 3	10.0			886
8464	1	-123.09	22*21*26	1/11/65	572	14.1	299.0	-27.4	97.2	55.253	-74.5	22*35*33	14.1			886
8465	2	-147.76	23*58*50	1/11/65	572	14.8	298.5	-27.9	97.4	55.247	-71.9	0* 8*33	9.7			886
8467	3	162.93	3*13*38	1/12/65	573	16.0	297.8	-29.0	0.3	55.235	-64.0	3*32* 3	18.4			886
8468	3	138.26	4*51* 2	1/12/65	573	16.5	297.4	-29.4	0.4	55.229	-67.9	5*11* 3	20.0			886
8483	3	128.20	5*12* 2	1/13/65	574	28.0	293.0	-34.6	3.7	55.138	-12.6	5*34* 3	22.0			887
8496	3	167.48	2*18*14	1/14/65	575	28.2	292.7	-32.7	4.2	55.060	-32.0	2*36* 3	17.8			888
8497	3	142.80	3*55*38	1/14/65	575	28.2	292.7	-32.6	4.2	55.054	-66.7	4*15*33	19.9			888
8498	3	118.13	5*33* 2	1/14/65	575	28.2	292.7	-32.4	4.2	55.048	-65.2	5*55*33	22.5			888

READOUT						ORBIT					TIME INTERVAL OF FILE ON FMR TAPE				
		SATELLITE EQUATOR CROSSING AT ORBITAL ASCENDING NODE (ANO)				SPIN VECTOR ATTITUDE					BEGIN	END		DROPOUTS, MINUTES W/R/T ANO	
ORBIT NO.	COA STA	EARTH LONGI-TUDE (DEG)	HOURS MINUTES SECONDS (GMT)	CALENDAR DATE	TIROS DAY	DECLI-NA-TION (DEG)	RIGHT ASCEN-SION (DEG)	MINI-MUM NADIR (DEG)	TOT (MIN. AFTER ANO)	SPIN RATE (DEG /SEC)	MINU-TES W/R/T ANO	HOURS MINUTES SECONDS (GMT)	MINU-TES W/R/T ANO	FROM-	TO-	FMR TAPE REEL NO.
8567	1	-103.90	20* 9*38	1/14/65	575	28.2	292.2	-30.8	4.4	54.994	-78.4	20*20* 3	10.4			889
8569	2	-153.24	23*24*26	1/14/65	575	28.2	292.1	-30.5	4.4	54.983	-74.5	23*34*33	10.1			889
8513	3	108.07	5*54* 2	1/15/65	576	28.3	291.9	-29.9	4.5	54.959	15.4	6*17*33	23.5			889
8526	3	147.35	3* 0*14	1/16/65	577	28.4	291.2	-27.8	4.8	54.881	-19.7	3*19*33	19.3			890
8527	3	122.68	4*37*38	1/16/65	577	28.4	291.2	-27.7	4.8	54.875	-65.4	4*59*33	21.9			890
8528	2	98.01	6*15* 2	1/16/65	577	28.4	291.1	-27.5	4.8	54.869	-60.7	6*49*33	34.5			890
8541	3	137.28	3*21*14	1/17/65	578	28.6	290.4	-25.5	5.1	54.792	-66.7	3*41*33	20.3			891
8542	3	112.61	4*58*38	1/17/65	578	28.6	290.4	-25.3	5.2	54.787	-64.3	5*22*33	23.9			891
8543	2	87.94	6*36* 2	1/17/65	578	28.6	290.4	-25.1	5.2	54.781	-60.9	7*11*33	35.5			891
8555	3	151.89	2* 4*50	1/18/65	579	28.8	289.8	-23.2	5.5	54.710	-71.1	2*23*33	18.7			892
8556	3	127.22	3*42*15	1/18/65	579	28.8	289.8	-23.0	5.5	54.704	-67.1	4* 3*33	21.3			892
8557	2	102.55	5*19*39	1/18/65	579	28.8	289.7	-22.8	5.5	54.698	-64.0	5*53*33	33.9			892
8558	2	77.88	6*57* 2	1/18/65	579	28.8	289.7	-22.7	5.6	54.692	-52.3	7*34*33	37.5			892
8566	1	-119.48	19*56*15	1/18/65	579	28.9	289.3	-21.4	5.8	54.645	-72.1	20* 9*33	13.3			893
8570	3	141.80	2*25*51	1/19/65	580	29.0	289.1	-20.8	5.9	54.622	-63.9	2*45*33	19.7			893
8572	2	92.45	5*40*39	1/19/65	580	29.0	289.0	-20.5	6.0	54.610	-65.1	6*15*33	34.9			893
8585	3	131.73	2*46*51	1/20/65	581	29.2	288.6	-18.4	6.3	54.534	-71.0	3* 7*33	20.7			894
8587	2	82.39	6* 1*39	1/20/65	581	28.8	288.7	-17.8	6.3	54.522	-62.1	6*38*33	36.9			894
8596	2	-139.64	20*38*15	1/20/65	581	27.2	288.3	-15.5	6.1	54.470	-76.7	20*49* 3	10.8			895
8599	1	146.34	1*30*27	1/21/65	582	26.7	288.3	-14.7	6.2	54.452	-50.9	2* 3* 3	32.6			895
8600	3	121.67	3* 7*51	1/21/65	582	26.5	288.3	-14.4	6.1	54.446	-53.3	3*30*33	22.7			895
8601	3	97.00	4*45*15	1/21/65	582	26.4	288.3	-14.1	6.1	54.441	-63.0	5*10*33	25.3			895
8659	2	106.09	2*54*26	1/25/65	586	17.1	288.6	2.6	6.0	54.105	-32.9	3*29* 3	34.6			896
8660	2	81.42	4*31*50	1/25/65	586	16.9	288.6	2.9	5.9	54.099	-49.0	5* 8*33	36.7			896
8667	1	-91.28	15*53*38	1/25/65	586	15.8	288.5	4.9	5.9	54.059	-87.7	16* 3* 3	9.4			897
8669	2	-140.62	19* 8*26	1/25/65	586	14.5	289.0	6.0	5.9	54.047	-63.7	19*19* 3	10.6			897

READOUT						ORBIT					TIME INTERVAL OF FILE ON FMR TAPE					
		SATELLITE EQUATOR CROSSING AT ORBITAL ASCENDING NODE (ANO)				SPIN VECTOR		ATTITUDE			BEGIN	END		DROPOUTS, MINUTES W/R/T ANO		
ORBIT NO.	COA STA	EARTH LONGI-TUDE (DEG)	HOURS MINUTES SECONDS (GMT)	CALENDAR DATE	TIROS DAY	DECLI-NA-TION (DEG)	RIGHT ASCEN-SION (DEG)	MINI-MUM NADIR (DEG)	TOT (MIN. AFTER ANO)	SPIN RATE (DEG /SEC)	MINU-TES W/R/T ANO	HOURS MINUTES SECONDS (GMT)	MINU-TES W/R/T ANO	FROM-	TO-	FMR TAPE REEL NO.
8727	2	-131.55	17*17*38	1/29/65	590	-2.3	292.5	31.1	4.9	53.716	-70.1	17*27* 3	9.4			898
8740	1	-92.27	14*23*50	1/30/65	591	-0.9	292.8	33.1	6.0	53.641	-89.5	14*35* 3	11.2			899
8769	1	-87.73	13*28*26	2/ 1/65	593	10.7	293.2	31.3	10.3	53.477	-30.5	13*37* 3	8.6			900
8770	1	-112.39	15* 5*50	2/ 1/65	593	11.3	293.1	31.0	10.6	53.471	-77.3	15*17* 3	11.2			900
8771	2	-137.07	16*43*14	2/ 1/65	593	11.9	293.0	30.7	10.7	53.465	-73.5	16*51* 3	7.8			900
8774	1	148.91	21*35*26	2/ 1/65	593	13.5	292.5	29.7	11.1	53.448	26.1	22* 9* 3	33.6			900
8776	2	99.57	0*50*14	2/ 2/65	594	15.0	292.6	28.9	11.5	53.437	-37.9	1*25* 3	34.8			900
8777	2	74.90	2*27*38	2/ 2/65	594	15.8	293.0	28.6	11.7	53.431	-11.5	3* 6* 3	38.4			900
8800	2	-132.52	15*47*50	2/ 3/65	595	29.0	299.2	23.5	16.8	53.301	-68.8	15*56* 3	8.2			901
8801	2	-157.19	17*25*14	2/ 3/65	595	29.4	299.3	23.3	16.9	53.295	-77.3	17*36*33	11.3			901
8804	3	128.79	22*17*26	2/ 3/65	595	30.7	299.7	22.7	17.3	53.278	-51.7	22*38*33	21.1			901
8805	2	104.12	23*54*50	2/ 3/65	595	31.3	300.2	22.4	17.5	53.272	-64.0	0*29* 3	34.2			901
8806	2	79.45	1*32*14	2/ 4/65	596	31.9	300.8	22.1	17.8	53.267	9.1	2*10*33	38.3			901
8813	1	-93.24	12*54* 2	2/ 4/65	596	34.5	305.5	21.3	19.6	53.227	-1.6	13* 2*33	8.5			902
8814	1	-117.91	14*31*26	2/ 4/65	596	34.7	305.8	21.2	19.7	53.221	-77.6	14*44* 3	12.6			902
8815	2	-142.58	16* 8*50	2/ 4/65	596	35.0	306.1	21.2	19.9	53.216	-72.5	16*16*33	7.7			902
8818	1	143.39	21* 1* 2	2/ 4/65	596	35.8	306.8	20.9	20.3	53.198	-55.0	21*34*33	33.5			902
8820	2	94.06	0*15*47	2/ 5/65	597	36.6	308.2	20.4	20.6	53.187	-38.1	0*50*33	34.8			902
8828	1	-103.30	13*15* 1	2/ 5/65	597	38.0	314.9	19.9	22.8	53.142	-76.6	13*26* 3	11.0			903
8829	2	-127.97	14*52*25	2/ 5/65	597	38.0	315.3	20.0	22.9	53.136	-72.1	14*59*33	7.1			903
8830	2	-152.64	16*29*49	2/ 5/65	597	38.0	315.6	20.1	23.1	53.130	-77.9	16*40*33	10.7			903
8832	1	158.00	19*44*37	2/ 5/65	597	38.2	316.1	20.0	23.3	53.119	-61.4	20*15*33	30.9			903
8833	3	133.33	21*22* 1	2/ 5/65	597	38.4	316.4	19.9	23.4	53.113	-53.8	21*43*33	21.5			903
8834	2	108.66	22*59*25	2/ 5/65	597	38.7	317.1	19.8	23.6	53.108	-63.6	23*32*33	33.1			903
8835	2	83.99	0*36*49	2/ 6/65	598	38.9	318.0	19.5	23.8	53.102	-51.2	1*13*33	36.7			903
8843	1	-113.36	13*36* 1	2/ 6/65	598	37.9	324.4	19.8	25.9	53.057	-81.8	13*47*33	11.5			904

READOUT						ORBIT					TIME INTERVAL OF FILE ON FMR TAPE				
		SATELLITE EQUATOR CROSSING AT ORBITAL ASCENDING NODE (ANO)				SPIN VECTOR ATTITUDE					BEGIN	END		DROPOUTS, MINUTES W/R/T ANO	
ORBIT NO.	LDA STA	EARTH LONGI-TUDE (DEG)	HOURS MINUTES SECONDS (GMT)	CALENDAR DATE	TIROS DAY	DECLI-NA-TION (DEG)	RIGHT ASCEN-SION (DEG)	MINI-MUM NADIR (DEG)	TOT (MIN. AFTER ANO)	SPIN RATE (DEG /SEC)	MINU-TES W/R/T ANO	HOURS MINUTES SECONDS (GMT)	MINU-TES W/R/T ANO	FROM-	TO-	FMR TAPE REEL NO.
8844	2	-138.03	15*13*25	2/ 6/65	598	37.9	324.4	19.9	26.0	53.051	-72.5	15*20*33	7.1			904
8847	3	147.94	20* 5*37	2/ 6/65	598	37.9	324.4	19.9	26.1	52.034	-53.9	20*25*33	19.9			904
8849	2	58.60	23*20*25	2/ 6/65	598	37.9	324.5	19.8	26.3	53.023	-53.7	23*54*33	34.1			904
8857	1	-58.76	12*19*37	2/ 7/65	599	37.8	325.1	19.6	26.8	52.977	-78.0	12*31* 3	11.4			905
8858	2	-123.43	13*57* 1	2/ 7/65	599	37.8	325.1	19.6	26.9	52.972	-72.6	14* 3*33	6.5			905
8859	2	-148.10	15*34*25	2/ 7/65	599	37.7	325.1	19.6	27.0	52.966	-78.2	15*45* 3	10.6			905
8861	1	162.55	18*49*13	2/ 7/65	599	37.7	325.1	19.6	27.1	52.955	-62.2	19*19*33	30.3			905
8864	2	88.54	23*41*25	2/ 7/65	599	37.7	325.2	19.4	27.2	52.938	-31.1	0*16*33	35.1			905
8872	1	-108.82	12*40*37	2/ 8/65	600	37.5	325.6	19.2	27.8	52.892	-78.0	12*51*33	10.9			906
8873	2	-133.49	14*18* 1	2/ 8/65	600	37.5	325.6	19.2	27.9	52.887	-74.3	14*27* 3	9.0			906
8874	2	-158.16	15*55*25	2/ 8/65	600	37.4	325.6	19.1	27.9	52.881	-75.4	16* 7*33	12.1			906
8876	3	152.49	19*10*13	2/ 8/65	600	37.4	325.6	19.1	28.0	52.870	-62.1	19*29*33	19.3			906
8878	2	103.15	22*25* 1	2/ 8/65	600	37.4	325.6	19.0	28.1	52.858	-54.7	22*58*33	33.5			906
8888	2	-143.55	14*39* 0	2/ 9/65	601	37.1	326.2	18.5	28.8	52.802	-65.1	14*48*33	9.6			907
8892	3	117.75	21* 8*36	2/ 9/65	601	37.0	326.2	18.4	29.1	52.779	-41.1	21*31*33	23.0			907
8893	2	93.08	22*46* 0	2/ 9/65	601	37.0	326.2	18.3	29.1	52.774	-61.2	23*20*33	34.6			907
8902	2	-128.95	13*22*36	2/10/65	602	36.7	326.6	17.9	29.7	52.723	-66.8	13*31*33	9.0			908
8903	2	-153.62	15* 0* 0	2/10/65	602	36.6	326.6	17.8	29.8	52.717	-76.0	15*10*33	10.6			908
8908	2	83.02	23* 7* 0	2/10/65	602	36.5	326.6	17.5	30.1	52.689	-56.4	23*43*33	36.6			908
8917	2	-139.01	13*43*36	2/11/65	603	38.0	326.4	15.6	30.3	52.638	-65.4	13*51*33	8.0			909
8918	2	-163.68	15*21* 0	2/11/65	603	38.0	326.4	15.5	30.4	52.632	-77.5	15*34*33	13.6			909
8921	3	122.30	20*13*12	2/11/65	603	38.1	326.4	15.1	30.5	52.615	-63.1	20*35*33	22.4			909
8922	2	97.63	21*50*36	2/11/65	603	38.1	326.3	15.0	30.6	52.610	-61.2	22*24*33	34.0			909
8934	3	161.58	17*19*23	2/12/65	604	38.9	325.9	13.5	31.0	52.537	-53.0	17*39* 3	19.7			910
8936	3	112.24	20*34*11	2/12/65	604	38.9	325.8	13.2	31.1	52.526	-51.0	20*57*33	23.4			910
8937	2	87.57	22*11*35	2/12/65	604	39.0	325.8	13.1	31.1	52.520	-60.8	22*47*33	36.0			910

READOUT						ORBIT					TIME INTERVAL OF FILE ON FMR TAPE				
		SATELLITE EQUATOR CROSSING AT ORBITAL ASCENDING NODE (ANO)				SPIN VECTOR ATTITUDE					BEGIN	END		DROPOUTS, MINUTES W/R/T ANO	
ORBIT NO.	GDA STA	EARTH LONGI-TUDE (DEG)	HOURS MINUTES SECONDS (GMT)	CALENDAR DATE	TIROS DAY	DECLI-NA-TION (DEG)	RIGHT ASCEN-SION (DEG)	MINI-MUM NADIR (DEG)	TOT (MIN. AFTER ANO)	SPIN RATE (DEG /SEC)	MINU-TES W/R/T ANO	HOURS MINUTES SECONDS (GMT)	MINU-TES W/R/T ANO	FROM-	TO-	FMR TAPE REEL NO.
8946	2	-134.46	12*48*11	2/13/65	605	39.7	325.2	11.9	31.3	52.468	-65.9	12*55* 3	6.9			911
8947	2	-159.13	14*25*35	2/13/65	605	39.7	325.2	11.8	31.4	52.462	-77.8	14*37*33	12.0			911
8949	3	151.52	17*40*23	2/13/65	605	39.8	325.2	11.5	31.4	52.451	-60.6	17*59*33	19.2			911
8950	1	126.85	19*17*47	2/13/65	605	39.8	325.2	11.4	31.5	52.445	-40.7	19*54* 3	36.3			911
8951	2	102.17	20*55*11	2/13/65	605	39.8	325.7	11.3	31.5	52.439	-51.7	21*28*33	33.4			911
8952	2	77.50	22*32*35	2/13/65	605	39.3	326.4	11.0	31.7	52.434	-51.3	23*10*33	38.0			911
8959	1	-95.18	9*54*23	2/14/65	606	34.4	330.4	12.1	33.5	52.393	-86.1	10* 3* 3	8.7			912
8960	1	-119.85	11*31*47	2/14/65	606	33.7	330.5	12.5	33.7	52.388	-16.1	11*45* 3	13.3			912
8961	2	-144.52	13* 9*11	2/14/65	606	33.1	330.6	12.9	33.9	52.382	-12.3	13*17*33	8.4			912
8963	1	166.13	16*23*59	2/14/65	606	32.1	330.7	13.5	34.2	52.370	-14.9	16*55* 3	31.1			912
8973	4	-80.57	8*37*58	2/15/65	607	25.0	334.1	15.3	36.5	52.313	-29.8	8*46*33	8.6			913
8974	1	-105.24	10*15*22	2/15/65	607	24.2	334.1	15.7	36.7	52.307	-43.0	10*25*33	10.2			913
8975	2	-129.91	11*52*46	2/15/65	607	23.5	334.1	16.2	36.9	52.301	-73.7	12* 0* 3	7.3			913
8976	2	-154.58	13*30*10	2/15/65	607	22.8	333.9	16.6	37.1	52.296	-26.7	13*41* 3	10.9			913
9093	2	-161.12	11*25*55	2/23/65	615	-65.3	259.0	56.4	71.8	51.623	-67.8	11*38*33	12.6			914
9107	2	-146.51	10* 9*30	2/24/65	616	-64.6	256.3	57.0	71.6	51.542	-93.4	10*19* 3	9.6			915
9110	1	139.47	15* 1*42	2/24/65	616	-64.7	256.0	56.9	71.5	51.525	-69.3	15*35* 3	33.4			915
9122	2	-156.57	10*30*30	2/25/65	617	-64.1	263.4	56.0	69.4	51.456	-90.7	10*42* 3	11.6			916
9136	2	-141.96	9*14* 5	2/26/65	618	-62.6	272.5	53.9	66.9	51.376	-96.0	9*22* 3	8.0			917
9139	1	144.02	14* 6*17	2/26/65	618	-62.4	274.2	53.3	66.4	51.358	-69.1	14*39* 3	32.8			917
9141	2	94.68	17*21* 5	2/26/65	618	-62.2	275.5	52.8	66.1	51.347	-68.6	17*56* 3	35.0			917
9151	2	-152.02	9*35* 5	2/27/65	619	-60.3	281.2	50.4	64.5	51.289	-94.4	9*45* 3	10.0			918
9154	1	133.96	14*27*16	2/27/65	619	-60.0	282.7	49.6	64.1	51.272	-69.0	15* 2* 3	34.8			918
9156	4	84.62	17*42* 4	2/27/65	619	-59.7	283.8	49.0	63.9	51.261	-66.8	18*18* 3	36.0			918
9166	2	-162.08	9*56* 4	2/28/65	620	-57.3	288.2	46.1	62.6	51.203	-91.6	10* 8*33	12.5			919
9171	2	74.56	18* 3* 4	2/28/65	620	-56.4	290.5	44.4	62.1	51.174	-65.7	18*42* 3	39.0			919

READOUT						ORBIT					TIME INTERVAL OF FILE ON FMR TAPE					
		SATELLITE EQUATOR CROSSING AT ORBITAL ASCENDING NODE (ANO)				SPIN VECTOR ATTITUDE					BEGIN	END		DROPOUTS, MINUTES W/R/T ANO		
ORBIT NO.	CDA STA	EARTH LONGI -TUDE (DEG)	HOURS MINUTES SECONDS (GMT)	CALENDAR DATE	TIROS DAY	DECLI -NA -TION (DEG)	RIGHT ASCEN -SION (DEG)	MINI -MUM NADIR (DEG)	TOT (MIN. AFTER ANO)	SPIN RATE (DEG /SEC)	MINU -TES W/R/T ANO	HOURS MINUTES SECONDS (GMT)	MINU -TES W/R/T ANO	FROM-	TO-	FMR TAPE REEL NO.
9180	2	-147.47	8*39*39	3/ 1/65	621	-53.9	293.6	41.5	61.1	51.123	-95.3	8*49* 3	9.4			920
9183	1	138.51	13*31*51	3/ 1/65	621	-53.3	294.7	40.4	60.8	51.105	-69.7	14* 7* 3	35.2			920
9185	2	89.17	16*46*39	3/ 1/65	621	-53.2	295.0	39.8	60.7	51.094	-69.1	17*22* 3	35.4			920
9200	2	79.08	17* 7*38	3/ 2/65	622	-53.4	296.5	36.6	60.9	50.859	-64.9	17*45*33	37.9			921
9211	1	167.70	10*59* 2	3/ 3/65	623	-53.4	297.4	34.4	61.1	50.777	-74.8	11*29*27	30.4			922
9212	1	143.04	12*36*26	3/ 3/65	623	-53.4	297.5	34.2	61.1	50.770	-5.7	13* 9*33	33.1			922
9214	2	93.69	15*51*14	3/ 3/65	623	-53.5	297.7	33.8	61.1	50.756	-62.2	16*24*33	33.3			922
9226	1	157.65	11*20* 1	3/ 4/65	624	-53.5	298.7	31.5	61.2	50.675	-72.0	11*52*33	32.5			923
9227	1	132.97	12*57*25	3/ 4/65	624	-53.5	299.0	31.2	61.3	50.668	-55.7	13*32*33	35.1			923
9229	2	83.63	16*12*13	3/ 4/65	624	-53.2	299.3	30.7	61.3	50.655	-68.2	16*48*33	36.3			923
9239	2	-163.06	8*26*13	3/ 5/65	625	-52.0	299.9	28.4	61.0	50.588	-91.2	8*39*33	13.3			924
9241	1	147.58	11*41* 1	3/ 5/65	625	-51.9	300.0	28.0	61.0	50.575	-70.6	12*13*33	32.5			924
9243	2	98.24	14*55*48	3/ 5/65	625	-51.6	300.1	27.6	61.0	50.561	-69.4	15*29*33	33.8			924
9253	2	-148.45	7* 9*48	3/ 6/65	626	-50.3	300.0	25.7	60.7	50.495	-93.6	7*19*33	9.8			925
9255	1	162.19	10*24*36	3/ 6/65	626	-50.1	300.1	25.3	60.7	50.482	-17.9	10*55*33	31.0			925
9256	1	137.52	12* 2* 0	3/ 6/65	626	-50.0	300.1	25.1	60.7	50.476	-60.6	12*35*33	33.6			925
9258	2	88.18	15*16*48	3/ 6/65	626	-49.8	300.2	24.7	60.7	50.463	-67.6	15*52*33	35.8			925
9267	2	-133.85	5*53*23	3/ 7/65	627	-48.5	300.1	22.8	60.5	50.404	-96.7	6* 0*33	7.2			926
9268	2	-158.51	7*30*47	3/ 7/65	627	-48.4	300.2	22.6	60.5	50.398	-76.9	7*42*33	11.8			926
9270	1	152.13	10*45*35	3/ 7/65	627	-48.2	300.2	22.2	60.5	50.385	-72.0	11*17*33	32.0			926
9271	1	127.46	12*22*59	3/ 7/65	627	-48.1	300.3	22.0	60.5	50.378	-50.9	12*58*33	35.6			926
9272	2	102.79	14* 0*23	3/ 7/65	627	-48.0	300.3	21.8	60.5	50.372	-46.9	14*33*33	33.2			926
9273	2	78.12	15*37*47	3/ 7/65	627	-47.9	300.2	21.6	60.5	50.366	-57.9	16*15*33	37.8			926
9282	2	-143.90	6*14*22	3/ 8/65	628	-46.6	300.0	19.8	60.3	50.308	-96.2	6*22*33	8.2			927
9284	1	166.75	9*29*10	3/ 8/65	628	-46.4	300.0	19.4	60.3	50.296	-74.2	9*59* 3	29.9			927
9285	1	142.07	11* 6*34	3/ 8/65	628	-46.3	300.1	19.2	60.3	50.290	25.0	11*41* 3	34.5			927

READOUT						ORBIT					TIME INTERVAL OF FILE ON FMR TAPE				
		SATELLITE EQUATOR CROSSING AT ORBITAL ASCENDING NODE (ANO)				SPIN VECTOR ATTITUDE					BEGIN	END		DROPOUTS, MINUTES W/R/T ANO		
ORBIT NO.	CDA STA	EARTH LONGI-TUDE (DEG)	HOURS MINUTES SECONDS (GMT)	CALENDAR DATE	TIROS DAY	DECLI-NA-TION (DEG)	RIGHT ASCEN-SION (DEG)	MINI-MUM NADIR (DEG)	TOT (MIN. AFTER ANO)	SPIN RATE (DEG /SEC)	MINU-TES W/R/T ANO	HOURS MINUTES SECONDS (GMT)	MINU-TES W/R/T ANO	FROM-	TO-	FMR TAPE REEL NO.
9287	2	92.73	14*21*22	3/ 8/65	628	-46.1	300.0	18.7	60.3	50.277	-38.2	14*57* 3	35.7			927
9296	2	-129.31	4*57*58	3/ 9/65	629	-44.8	299.8	16.9	60.1	50.221	-64.9	5* 4*33	6.6			928
9297	2	-153.98	6*35*22	3/ 9/65	629	-44.7	299.8	16.7	60.1	50.215	-79.0	6*46* 3	10.7			928
9299	1	156.67	9*50*10	3/ 9/65	629	-44.5	299.8	16.3	60.1	50.203	-62.8	10*21*33	31.4			928
9302	2	82.66	14*42*21	3/ 9/65	629	-44.1	299.8	15.6	60.1	50.184	-38.5	15*18*33	36.2			928
9311	2	-139.37	5*18*57	3/10/65	630	-42.7	299.5	13.7	59.9	50.130	-65.3	5*26*33	7.6			929
9314	1	146.61	10*11* 9	3/10/65	630	-42.4	299.5	13.0	59.9	50.112	18.2	10*43*33	32.4			929
9316	2	97.27	13*25*57	3/10/65	630	-42.1	299.5	12.5	59.9	50.100	-51.7	14* 2* 3	36.1			929
9326	2	-149.43	5*39*56	3/11/65	631	-40.5	299.4	10.2	59.8	50.041	-53.7	5*49*33	9.6			930
9328	1	161.22	8*54*44	3/11/65	631	-40.3	299.4	9.7	59.9	50.029	-62.0	9*25*33	30.8			930
9329	1	136.55	10*32* 8	3/11/65	631	-40.2	299.4	9.5	59.9	50.023	-52.0	11* 5*33	33.4			930
9330	2	111.88	12* 9*32	3/11/65	631	-40.0	299.4	9.2	59.9	50.018	-49.4	12*43* 3	33.5			930
9331	2	87.21	13*46*56	3/11/65	631	-39.9	299.4	9.0	59.9	50.012	-50.8	14*23*33	36.6			930
9343	1	151.16	9*15*43	3/12/65	632	-37.9	298.4	6.5	59.7	49.944	-61.9	9*47*33	31.8			931
9344	1	126.49	10*53* 7	3/12/65	632	-37.8	298.3	6.3	59.7	49.938	-52.6	11*28*33	35.4			931
9345	2	101.82	12*30*31	3/12/65	632	-37.6	298.1	6.1	59.7	49.933	-49.9	13* 4* 3	33.5			931
9346	2	77.15	14* 7*55	3/12/65	632	-37.5	297.9	6.0	59.7	49.927	-51.1	14*45*33	37.6			931
9355	2	-144.88	4*44*31	3/13/65	633	-35.8	297.6	3.9	59.6	49.878	-63.5	4*52*33	8.0			932
9357	1	165.77	7*59*18	3/13/65	633	-35.6	297.6	3.4	59.6	49.867	-63.8	8*29*33	30.3			932
9358	1	141.10	9*36*42	3/13/65	633	-35.5	297.5	3.2	59.6	49.861	-52.3	10* 9*33	32.9			932
9359	2	116.43	11*14* 6	3/13/65	633	-35.4	297.3	3.0	59.6	49.856	-52.4	11*47*58	33.9			932
9360	2	91.76	12*51*30	3/13/65	633	-35.2	297.2	2.9	59.6	49.851	-51.0	13*26*33	35.1			932
9369	2	-130.27	3*28* 6	3/14/65	634	-33.7	297.3	0.7	59.5	49.803	-65.6	3*37* 3	9.0			933
9374	2	106.37	11*35* 5	3/14/65	634	-34.3	298.0	-0.8	59.7	49.777	-47.1	12*12* 3	37.0			933
9375	2	81.70	13*12*29	3/14/65	634	-35.2	298.3	-0.7	59.9	49.772	-48.5	13*49*33	37.1			933
9384	2	-140.33	3*49* 5	3/15/65	635	-40.0	303.8	-1.6	62.1	49.726	-64.3	3*59* 3	10.0			934

READOUT						ORBIT					TIME INTERVAL OF FILE ON FMR TAPE					
		SATELLITE EQUATOR CROSSING AT ORBITAL ASCENDING NODE (AND)				SPIN VECTOR ATTITUDE					BEGIN	END		DROPOUTS, MINUTES W/R/T AND		
ORBIT NO.	CDA STA	EARTH LONGI-TUDE (DEG)	HOURS MINUTES SECONDS (GMT)	CALENDAR DATE	TIROS DAY	DECLI-NA-TION (DEG)	RIGHT ASCEN-SION (DEG)	MINI-MUM NADIR (DEG)	TOT (MIN. AFTER AND)	SPIN RATE (DEG /SEC)	MINU-TES W/R/T AND	HOURS MINUTES SECONDS (GMT)	MINU-TES W/R/T AND	FROM-	TO-	FMR TAPE REEL NO.
9387	1	145.65	8*41*17	3/15/65	635	-41.2	304.5	-1.8	62.6	49.712	-24.4	9*14*33	33.3			934
9388	3	120.98	10*18*41	3/15/65	635	-41.7	304.8	-1.6	62.7	49.707	-48.6	10*41*33	22.9			934
9389	2	96.31	11*56* 5	3/15/65	635	-41.4	306.3	-2.8	62.8	49.702	-61.5	12*30*33	34.5			934
9397	1	-101.06	0*55*16	3/16/65	636	-47.3	313.6	-2.2	65.3	49.663	-78.4	1* 6* 3	10.8			935
9398	2	-125.73	2*32*40	3/16/65	636	-47.7	314.1	-2.2	65.5	49.658	-74.5	2*40* 3	7.4			935
9399	2	-150.40	4*10* 4	3/16/65	636	-48.1	314.7	-2.2	65.7	49.654	-78.3	4*20*33	10.5			935
9402	1	135.58	9* 2*16	3/16/65	636	-49.6	316.1	-1.9	66.2	49.640	-51.2	9*36*33	34.3			935
9403	2	110.91	10*39*40	3/16/65	636	-50.3	316.9	-1.6	66.4	49.635	-50.0	11*13* 3	33.4			935
9411	1	-86.45	23*38*51	3/16/65	636	-54.2	328.8	-1.4	68.9	49.598	-77.5	23*48* 3	9.2			936
9412	1	-111.12	1*16*15	3/17/65	637	-54.3	329.9	-1.6	69.2	49.594	-75.2	1*28* 3	11.8			936
9413	2	-135.79	2*53*39	3/17/65	637	-54.3	330.9	-1.8	69.4	49.597	-70.8	3* 2* 3	8.4			936
9414	2	-160.46	4*31* 3	3/17/65	637	-54.4	331.8	-2.0	69.6	49.591	-76.1	4*43* 3	12.0			936
9416	1	150.19	7*45*51	3/17/65	637	-54.7	333.4	-2.2	70.0	49.580	-37.3	8*17*33	31.7			936
9418	2	100.85	11* 0*39	3/17/65	637	-55.4	335.8	-2.0	70.4	49.568	-42.7	11*35* 3	34.4			936
9426	1	-96.51	23*59*50	3/17/65	637	-54.9	349.6	-3.0	72.8	49.522	-76.1	0*11* 3	11.2			937
9427	1	-121.18	1*37*14	3/18/65	638	-54.6	350.5	-3.3	73.0	49.516	-73.1	1*51*33	14.3			937
9428	2	-145.85	3*14*38	3/18/65	638	-54.2	351.4	-3.6	73.3	49.510	-68.9	3*25* 3	10.4			937
9431	1	140.13	8* 6*50	3/18/65	638	-53.8	353.8	-4.2	73.7	49.493	12.4	8*40*33	33.7			937
9432	2	115.46	9*44*14	3/18/65	638	-53.7	355.1	-4.2	74.0	49.487	-50.2	10*17* 3	32.8			937
9440	1	-81.89	22*43*26	3/18/65	638	-51.9	7.2	-4.0	76.4	49.440	-71.5	22*51*33	8.1			938
9441	1	-106.57	0*20*50	3/19/65	639	-51.5	8.2	-4.0	76.7	49.434	-75.5	0*32* 3	11.2			938
9442	2	-131.24	1*58*14	3/19/65	639	-51.3	9.0	-4.2	76.9	49.428	-71.5	2* 6* 3	7.8			938
9443	2	-155.91	3*35*37	3/19/65	639	-51.0	9.7	-4.2	77.1	49.422	-78.2	3*47* 3	11.4			938
9447	2	105.40	10* 5*13	3/19/65	639	-50.4	12.9	-3.9	77.8	49.398	-55.3	10*39* 3	33.8			938
9455	1	-91.56	23* 4*25	3/19/65	639	-46.0	22.3	-3.6	80.1	49.350	-78.4	23*14* 3	9.6			939
9456	1	-116.63	0*41*49	3/20/65	640	-45.3	23.0	-3.8	80.4	49.344	-73.8	0*55* 3	13.2			939

READOUT						ORBIT					TIME INTERVAL OF FILE ON FMR TAPE				
		SATELLITE EQUATOR CROSSING AT CRBITAL ASCENDING NODE (ANO)				SPIN VECTOR ATTITUDE					BEGIN	END		DROPOUTS, MINUTES W/R/T ANO		
ORBIT NO.	CDA STA	EARTH LONGI -TUDE (DEG)	HOURS MINUTES SECONDS (GMT)	CALENDAR DATE	TIROS DAY	DECLI -NA -TION (DEG)	RIGHT ASCEN -SION (DEG)	MINI -MUM NADIR (DEG)	TOT (MIN. AFTER ANO)	SPIN RATE (DEG /SEC)	MINU -TES W/R/T ANO	HOURS MINUTES SECONDS (GMT)	MINU -TES W/R/T ANO	FROM-	TO-	FMR TAPE REEL NO.
9457	2	-141.30	2*19*13	3/20/65	640	-44.8	23.4	-4.0	80.6	49.338	-70.9	2*28* 3	8.8			939
9459	1	169.35	5*34* 0	3/20/65	640	-43.9	24.1	-4.3	81.0	49.326	-73.5	6* 5* 3	31.1			939
9462	2	95.34	10*26*12	3/20/65	640	-42.5	25.9	-4.4	81.5	49.308	-72.0	11* 1* 3	34.9			939
9475	1	134.62	7*32*23	3/21/65	641	-32.5	31.6	-6.9	84.9	49.229	-73.4	8* 7* 3	34.7			940
9476	2	109.95	9* 9*47	3/21/65	641	-31.9	31.9	-7.0	85.0	49.223	-74.0	9*42* 3	32.8			940
9477	2	85.28	10*47*11	3/21/65	641	-31.1	32.5	-7.1	85.2	49.217	-74.2	11*23* 3	35.9			940
9485	1	-112.07	23*46*23	3/21/65	641	-23.2	34.6	-9.3	87.6	49.168	-84.1	23*59* 3	12.7			941
9487	2	-161.42	3* 1*11	3/22/65	642	-21.7	34.3	-10.3	88.0	49.156	-75.6	3*13*33	12.4			941
9490	1	124.56	7*53*22	3/22/65	642	-19.8	33.9	-11.4	88.4	49.137	-65.1	8*30*33	37.2			941
9491	2	99.89	9*30*46	3/22/65	642	-19.1	34.1	-11.6	88.6	49.131	-48.3	10* 4*33	33.8			941
9499	1	-97.46	22*29*58	3/22/65	642	-11.2	35.0	-13.9	90.8	49.082	-91.9	22*40* 3	10.1			942
9500	1	-122.15	0* 7*22	3/23/65	643	-10.3	34.8	-14.4	91.1	49.076	-75.2	0*21*33	14.2			942
9501	2	-146.83	1*44*46	3/23/65	643	-9.6	34.5	-14.9	91.2	49.070	-70.9	1*54* 3	9.3			942
9503	1	163.82	4*59*33	3/23/65	643	-8.2	33.9	-15.9	91.6	49.057	-64.2	5*30*33	31.0			942
9506	2	89.81	9*51*45	3/23/65	643	-6.1	33.6	-16.9	92.0	49.039	-56.1	10*27*33	35.8			942
9513	1	-82.87	21*13*33	3/23/65	643	1.1	33.8	-19.2	94.0	48.995	-89.4	21*21*33	8.0			943
9514	1	-107.54	22*50*57	3/23/65	643	2.0	33.5	-19.6	94.3	48.989	-77.2	23* 2* 3	11.1			943
9515	2	-132.21	0*28*23	3/24/65	644	3.0	33.0	-20.4	94.5	48.983	-72.4	0*36* 3	7.7			943
9516	2	-156.88	2* 5*45	3/24/65	644	3.7	32.7	-20.9	94.7	48.977	-77.2	2*16*33	10.8			943
9519	1	129.10	6*57*56	3/24/65	644	5.7	31.5	-22.4	95.1	48.958	-51.6	7*33*33	35.6			943
9520	2	104.42	8*35*20	3/24/65	644	6.5	31.3	-22.8	95.3	48.952	-50.2	9* 9* 3	33.7			943
9521	2	79.75	10*12*44	3/24/65	644	7.4	31.3	-23.2	95.5	48.946	-51.9	10*50* 3	37.3			943
9528	1	-92.93	21*34*32	3/24/65	644	14.7	30.5	-26.0	0.2	48.902	-87.0	21*44* 3	9.5			944
9529	1	-117.60	23*11*56	3/24/65	644	15.7	30.1	-26.5	0.4	48.896	-75.5	23*24*33	12.6			944
9544	2	-127.66	23*32*55	3/25/65	645	28.6	25.3	-33.3	4.1	48.803	-79.9	23*49* 3	7.1			945
9545	2	-152.33	1*10*19	3/26/65	646	28.9	25.0	-33.3	4.2	48.797	-78.7	1*20* 3	9.7			945

READOUT						ORBIT					TIME INTERVAL OF FILE ON FMR TAPE				
		SATELLITE EQUATOR CROSSING AT ORBITAL ASCENDING NODE (AND)				SPIN VECTOR ATTITUDE					BEGIN	END		DROPOUTS, MINUTES W/R/T AND		
ORBIT NO.	CDA STA	EARTH LONGI-TUDE (DEG)	HOURS MINUTES SECONDS (GMT)	CALENDAR DATE	TIROS DAY	DECLI-NA-TION (DEG)	RIGHT ASCEN-SION (DEG)	MINI-MUM NADIR (DEG)	TOT (MIN. AFTER AND)	SPIN RATE (DEG /SEC)	MINU-TES W/R/T AND	HOURS MINUTES SECONDS (GMT)	MINU-TES W/R/T AND	FROM-	TO-	FMR TAPE REEL NO.
9548	1	133.65	6* 2*31	3/26/65	646	29.6	24.2	-33.6	4.5	48.778	-48.4	6*37*33	35.0			945
9549	2	108.98	7*39*55	3/26/65	646	29.8	24.0	-33.7	4.5	48.772	-49.5	8*13* 3	33.1			945
9550	2	84.31	9*17*19	3/26/65	646	30.2	23.8	-33.8	4.6	48.766	-51.1	9*54*33	37.2			945
9578	2	113.53	6*44*26	3/28/65	648	37.2	19.7	-33.7	7.0	48.592	-70.8	7*17*33	33.1			946
9608	2	93.20	7*26*26	3/30/65	650	43.5	14.5	-33.6	9.2	67.154	-61.1	8* 1*33	35.1			947
9617	2	-128.83	22* 3* 1	3/30/65	650	44.9	13.0	-33.2	9.7	67.099	-82.1	22*11* 3	8.0			948
9618	2	-153.50	23*40*25	3/30/65	650	45.0	12.8	-33.3	9.8	67.093	-78.1	23*51* 3	10.6			948
9620	1	157.15	2*55*13	3/31/65	651	45.3	12.4	-33.3	9.9	67.081	-63.7	3*26*33	31.3			948
9622	2	107.80	6*10* 1	3/31/65	651	45.6	12.1	-33.3	10.0	67.068	-41.4	6*42*33	32.5			948
9623	2	83.14	7*47*25	3/31/65	651	45.8	12.0	-33.2	10.0	67.062	-51.5	8*23*33	36.1			948
9630	1	-89.56	19* 9*12	3/31/65	651	46.9	11.0	-32.9	10.4	67.019	-88.1	19*17*33	8.4			949
9631	1	-114.23	20*46*36	3/31/65	651	47.0	10.8	-32.9	10.4	67.013	-66.3	20*59* 3	12.5			949
9632	2	-138.90	22*24* 0	3/31/65	651	47.2	10.5	-32.9	10.5	67.007	-73.0	22*32* 3	8.1			949
9633	2	-163.57	0* 1*24	4/ 1/65	652	47.3	10.3	-32.9	10.5	67.001	-76.3	0*14*33	13.2			949
9635	3	147.08	3*16*12	4/ 1/65	652	47.6	9.9	-33.0	10.6	66.988	-59.9	3*35*33	19.4			949
9636	3	122.41	4*53*35	4/ 1/65	652	47.8	9.7	-33.0	10.7	66.982	-64.3	5*15*33	22.0			949
9637	2	97.74	6*30*59	4/ 1/65	652	47.9	9.6	-32.9	10.7	66.976	-61.3	7* 5*33	34.6			949
9664	3	151.61	2*20*45	4/ 3/65	654	48.3	8.5	-29.4	11.2	66.809	-61.4	2*39*33	18.8			950
9665	3	126.94	3*58* 9	4/ 3/65	654	48.2	8.5	-29.2	11.2	66.803	-62.2	4*21* 3	22.9			950
9666	2	102.26	5*35*33	4/ 3/65	654	48.1	8.5	-29.0	11.2	66.797	-59.5	6* 9*33	34.0			950
9667	2	77.60	7*12*56	4/ 3/65	654	48.0	8.5	-28.8	11.1	66.791	-50.2	7*50*33	37.6			950
9674	1	-95.10	18*34*44	4/ 3/65	654	47.3	8.4	-27.5	11.1	66.747	-85.6	18*45* 3	10.3			951
9675	1	-119.77	20*12* 8	4/ 3/65	654	47.2	8.4	-27.3	11.1	66.741	-74.0	20*25*58	13.8			951
9676	2	-144.44	21*49*32	4/ 3/65	654	47.1	8.4	-27.2	11.1	66.735	-66.5	22* 0*33	11.0			951
9678	3	166.21	1* 4*19	4/ 4/65	655	46.9	8.4	-26.8	11.1	66.723	6.1	1*23* 3	18.7			951
9679	3	141.54	2*41*43	4/ 4/65	655	46.8	8.4	-26.6	11.0	66.716	-64.0	3* 3* 3	21.3			951

READOUT						ORBIT					TIME INTERVAL OF FILE ON FMR TAPE				
		SATELLITE EQUATOR CROSSING AT ORBITAL ASCENDING NODE (ANO)				SPIN VECTOR ATTITUDE					BEGIN	END		DROPOUTS, MINUTES W/R/T ANO	
ORBIT NO.	CCA STA	EARTH LONGI-TUDE (DEG)	HOURS MINUTES SECONDS (GMT)	CALENDAR DATE	TIROS DAY	DECLI-NA-TION (DEG)	RIGHT ASCEN-SION (DEG)	MINI-MUM NADIR (DEG)	TOT (MIN. AFTER ANO)	SPIN RATE (DEG /SEC)	MINU-TES W/R/T ANO	HOURS MINUTES SECONDS (GMT)	MINU-TES W/R/T ANO	FROM-	TO-	FMR TAPE REEL NO.
9680	3	116.87	4*19* 7	4/ 4/65	655	46.7	8.4	-26.4	11.0	66.710	-60.9	4*41*33	22.4			951
9681	2	92.20	5*56*31	4/ 4/65	655	46.6	8.4	-26.2	11.0	66.704	-59.8	6*31*33	35.0			951
9689	1	-105.17	18*55*42	4/ 4/65	655	45.8	8.2	-24.7	10.9	66.654	-77.1	19* 7* 3	11.4			952
9690	2	-129.84	20*33* 6	4/ 4/65	655	45.7	8.2	-24.5	10.9	66.648	-72.8	20*41*33	8.5			952
9691	2	-154.51	22*10*30	4/ 4/65	655	45.6	8.2	-24.3	10.9	66.642	-77.0	22*20*33	10.1			952
9693	3	156.14	1*25*18	4/ 5/65	656	45.5	8.2	-23.9	10.9	66.630	-64.1	1*45* 3	19.8			952
9694	3	131.47	3* 2*42	4/ 5/65	656	45.4	8.2	-23.7	10.9	66.623	-64.8	3*24* 3	21.4			952
9695	2	106.79	4*40* 5	4/ 5/65	656	45.3	8.2	-23.5	10.9	66.617	-52.8	5*13*33	33.5			952
9696	2	82.12	6*17*29	4/ 5/65	656	45.2	8.2	-23.3	10.9	66.611	-44.2	6*54*33	37.1			952
9704	1	-115.24	19*16*40	4/ 5/65	656	44.4	8.0	-21.9	10.8	66.561	-75.4	19*28*33	11.9			953
9708	1	146.32	1*46*16	4/ 6/65	657	44.1	7.9	-21.1	10.8	66.536	-6.0	2*18*33	32.3			953
9709	3	121.65	3*23*40	4/ 6/65	657	44.0	7.9	-20.9	10.8	66.530	-7.5	3*46*33	22.9			953
9710	3	96.98	5* 1* 4	4/ 6/65	657	43.9	7.9	-20.7	10.8	66.524	-59.6	5*15*33	14.5			953
9718	1	-100.38	18* 0*15	4/ 6/65	657	43.2	7.6	-19.2	10.7	66.474	-47.0	18*10* 3	9.8			954
9720	2	-149.72	21*15* 3	4/ 6/65	657	43.0	7.6	-18.9	10.7	66.462	-81.5	21*26*33	11.5			954
9722	1	160.93	0*29*50	4/ 7/65	658	42.9	7.5	-18.5	10.7	66.449	-61.5	1* 0*33	30.7			954
9723	1	136.26	2* 7*14	4/ 7/65	658	42.8	7.5	-18.3	10.7	66.443	-54.7	2*41*33	34.3			954
9724	2	111.59	3*44*38	4/ 7/65	658	42.7	7.5	-18.1	10.7	66.437	-50.5	4*17*33	32.9			954
9725	2	86.92	5*22* 2	4/ 7/65	658	42.6	7.5	-17.9	10.7	66.430	-49.2	5*58*33	36.5			954
9735	2	-159.78	21*36* 1	4/ 7/65	658	41.8	7.2	-16.0	10.8	66.368	-76.8	21*47*33	11.5			955
9737	1	150.87	0*50*49	4/ 8/65	659	41.7	7.2	-15.7	10.8	66.356	-61.3	1*22*33	31.7			955
9738	1	126.20	2*28*12	4/ 8/65	659	41.6	7.1	-15.5	10.8	66.349	-23.6	3* 4*33	36.4			955
9739	2	101.53	4* 5*36	4/ 8/65	659	41.5	7.1	-15.3	10.8	66.343	-48.2	4*39*33	34.0			955
9740	2	76.86	5*43* 0	4/ 8/65	659	41.4	7.1	-15.1	10.8	66.337	-51.3	6*21*33	38.6			955
9749	2	-145.16	20*19*35	4/ 8/65	659	40.7	6.8	-13.4	10.8	66.281	-71.5	20*29*33	10.0			956
9754	2	91.47	4*26*34	4/ 9/65	660	40.4	6.7	-12.5	10.9	66.249	-30.5	5* 1*33	35.0			956

READOUT						ORBIT					TIME INTERVAL OF FILE ON FMR TAPE				
		SATELLITE EQUATOR CROSSING AT ORBITAL ASCENDING NODE (ANO)				SPIN VECTOR ATTITUDE					BEGIN	END		DROPOUTS, MINUTES W/R/T ANO	
ORBIT NO.	CCA STA	EARTH LONGI-TUDE (DEG)	HOURS MINUTES SECONDS (GMT)	CALENDAR DATE	TIROS DAY	DECLI-NA-TION (DEG)	RIGHT ASCEN-SION (DEG)	MINI-MUM NADIR (DEG)	TOT (MIN. AFTER ANO)	SPIN RATE (DEG /SEC)	MINU-TES W/R/T ANO	HOURS MINUTES SECONDS (GMT)	MINU-TES W/R/T ANO	FROM-	TO-	FMR TAPE REEL NO.
9763	2	-130.55	19* 3* 9	4/ 9/65	660	39.7	6.4	-10.8	10.9	66.193	-75.8	19* 9*33	6.4			957
9764	2	-155.22	20*40*33	4/ 9/65	660	39.7	6.4	-10.7	10.9	66.187	-78.0	20*51*33	11.0			957
9768	2	106.09	3*10* 9	4/10/65	661	39.4	6.4	-9.9	11.0	66.162	-40.6	3*43*33	33.4			957
9769	2	81.41	4*47*33	4/10/65	661	39.4	6.4	-9.7	11.0	66.156	-51.9	5*24*33	37.0			957
9776	1	-91.27	16* 9*20	4/10/65	661	38.9	6.1	-8.4	11.2	66.112	-86.9	16*18* 3	8.7			958
9777	1	-115.94	17*46*44	4/10/65	661	38.8	6.1	-8.3	11.2	66.105	-75.6	17*59*33	12.8			958
9778	2	-140.61	19*24* 7	4/10/65	661	38.8	6.1	-8.1	11.2	66.099	-71.7	19*36*33	12.4			958
9783	2	96.03	3*31* 7	4/11/65	662	38.5	6.0	-7.2	11.3	66.038	-62.6	4* 5*33	34.4			958
9792	2	-126.00	18* 7*42	4/11/65	662	38.0	5.7	-5.6	11.4	66.011	-68.4	18*14*33	6.9			959
9793	2	-150.67	19*45* 5	4/11/65	662	37.9	5.7	-5.4	11.4	66.005	-78.8	19*57*33	12.5			959
9798	2	85.97	3*52* 5	4/12/65	663	37.7	5.6	-4.5	11.5	65.974	-59.3	4*28*33	36.5			959
9805	1	-86.72	15*13*52	4/12/65	663	37.2	5.4	-3.2	11.6	65.930	-83.9	15*23* 3	9.2			960
9806	1	-111.39	16*51*16	4/12/65	663	37.2	5.4	-3.1	11.6	65.923	-77.8	17* 3* 3	11.8			960
9807	1	-136.06	18*28*39	4/12/65	663	37.2	5.4	-2.9	11.6	65.917	-72.3	18*35*33	6.9			960
9808	2	-160.73	20* 6* 3	4/12/65	663	37.1	5.4	-2.7	11.6	65.911	-1.8	20*18*33	12.5			960
9810	3	149.92	23*20*51	4/12/65	663	37.1	5.4	-2.4	11.7	65.898	-56.8	23*40*33	19.7			960
9812	2	100.50	2*35*39	4/13/65	664	37.0	5.4	-2.0	11.7	65.886	-47.7	3* 9*33	33.9			960
9822	2	-146.10	18*49*37	4/13/65	664	36.5	5.1	-0.3	12.0	65.823	-66.8	19* 3*14	13.6			961
9826	3	115.21	1*19*13	4/14/65	665	36.3	5.1	0.4	12.1	65.798	-36.7	1*42*33	23.3			961
9839	1	154.50	22*25*23	4/14/65	665	35.8	4.9	2.6	12.4	65.716	-30.8	22*56*33	31.2			962
9840	1	129.83	0* 2*53	4/15/65	666	35.8	4.8	2.8	12.3	65.710	-53.6	0*37*33	34.7			962
9849	1	-92.20	14*39*21	4/15/65	666	35.8	5.2	4.3	12.8	65.653	-88.4	14*47*33	8.2			963
9850	1	-116.87	16*16*45	4/15/65	666	35.8	5.2	4.5	12.9	65.647	-77.2	16*29*33	12.8			963
9855	3	119.77	0*23*44	4/16/65	667	35.8	5.4	5.3	13.1	65.615	-47.1	0*46*33	22.8			963
9864	1	-102.25	15* 0*19	4/16/65	667	36.3	6.0	6.5	13.7	65.558	-42.7	15* 9*33	9.2			964
9865	1	-126.92	16*37*43	4/16/65	667	36.4	6.1	6.7	13.8	65.552	-74.8	16*52*33	14.8			964

READOUT						ORBIT					TIME INTERVAL OF FILE ON FMR TAPE				
		SATELLITE EQUATOR CROSSING AT ORBITAL ASCENDING NODE (AND)				SPIN VECTOR ATTITUDE					BEGIN	END		DROPOUTS, MINUTES W/R/T AND		
ORBIT NO.	CLA STA	EARTH LONGI-TUDE (DEG)	HOURS MINUTES SECONDS (GMT)	CALENDAR DATE	TIROS DAY	DECLI-NA-TION (DEG)	RIGHT ASCEN-SION (DEG)	MINI-MUM NADIR (DEG)	TOT (MIN. AFTER AND)	SPIN RATE (DEG /SEC)	MINU-TES W/R/T AND	HOURS MINUTES SECONDS (GMT)	MINU-TES W/R/T AND	FROM-	TO-	FMR TAPE REEL NO.
9869	1	124.39	23* 7*18	4/16/65	667	36.5	6.2	7.2	14.0	65.527	-36.1	23*41*33	34.3			964
9879	1	-112.30	15*21*17	4/17/65	668	41.5	10.5	6.4	15.9	65.464	-77.3	15*36*33	15.3			965
9883	1	149.01	21*50*52	4/17/65	668	41.7	10.7	7.0	16.2	65.438	-35.0	22*23* 3	32.2			965
9884	1	124.33	23*28*16	4/17/65	668	41.7	10.7	7.1	16.2	65.432	-48.4	0* 7*33	39.3			965
9885	3	99.67	1* 5*40	4/18/65	669	41.8	10.8	7.2	16.3	65.426	-45.0	1*31*33	25.9			965
9893	1	-97.69	14* 4*50	4/18/65	669	42.2	11.6	8.0	16.8	65.375	-78.3	14*15* 3	10.2			966
9894	1	-122.36	15*42*14	4/18/65	669	42.2	11.6	8.1	16.8	65.369	-4.2	15*58*33	16.3			966
9898	1	138.95	22*11*50	4/18/65	669	42.3	11.8	8.4	17.2	65.344	-18.3	22*45* 3	33.2			966
9908	1	-107.74	14*25*48	4/19/65	670	42.8	12.8	9.3	17.8	65.280	-79.0	14*40*33	14.8			967
9912	1	153.57	20*55*23	4/19/65	670	42.8	13.0	9.7	18.0	65.255	-35.4	21*27* 3	31.7			967
9913	1	128.90	22*32*47	4/19/65	670	42.9	13.1	9.8	18.1	65.249	-52.9	23* 8*33	35.8			967
9914	3	104.23	0*10*11	4/20/65	671	42.9	13.1	9.8	18.1	65.242	21.9	0*34*33	24.4			967
9922	1	-93.17	13* 9*22	4/20/65	671	43.2	14.0	10.5	18.7	65.192	-86.0	13*19* 3	9.7			968
9923	1	-117.84	14*46*45	4/20/65	671	43.2	14.1	10.6	18.7	65.185	-74.4	14*59*33	12.8			968
9927	1	143.47	21*16*21	4/20/65	671	43.3	14.3	10.9	19.0	65.160	20.9	21*50* 3	33.7			968
9937	1	-103.23	13*30*19	4/21/65	672	43.7	15.3	11.5	19.7	65.097	-87.4	13*39*33	9.2			969
9941	1	158.08	19*59*54	4/21/65	672	43.8	15.5	11.7	20.0	65.072	-41.8	20*31* 3	31.2			969
9942	1	133.41	21*37*18	4/21/65	672	43.9	15.5	11.7	20.0	65.065	-54.0	22*11*33	34.3			969
9952	1	-113.28	13*51*16	4/22/65	673	46.1	22.6	11.3	21.9	65.002	-75.5	14* 4* 3	12.8			970
9956	1	148.03	20*20*52	4/22/65	673	46.7	24.3	11.2	22.4	64.977	-38.8	20*54* 3	33.2			970
9957	1	123.36	21*58*15	4/22/65	673	46.9	24.9	11.1	22.6	64.970	-51.8	22*34*33	36.3			970
9958	3	98.69	23*35*39	4/22/65	673	47.2	25.6	10.9	22.7	64.964	-47.0	0* 1*58	26.3			970
9966	1	-98.67	12*34*50	4/23/65	674	47.5	33.1	10.6	24.6	64.913	-46.5	12*46* 3	11.2			971
9970	1	162.64	19* 4*25	4/23/65	674	47.2	35.1	10.9	25.2	64.888	-47.9	19*34*33	30.1			971
9971	1	137.97	20*41*49	4/23/65	674	47.3	35.5	10.9	25.3	64.882	-53.7	21*15*33	33.7			971
9981	1	-108.72	12*55*47	4/24/65	675	45.6	44.0	11.0	27.4	64.818	-74.6	13* 6*33	10.8			972

READOUT						ORBIT					TIME INTERVAL OF FILE ON FMR TAPE					
		SATELLITE EQUATOR CROSSING AT ORBITAL ASCENDING NODE (ANO)				SPIN VECTOR		ATTITUDE			BEGIN	END		DROPOUTS, MINUTES W/R/T ANO		
ORBIT NO.	GDA STA	EARTH LONGI-TUDE (DEG)	HOURS MINUTES SECONDS (GMT)	CALENDAR DATE	TIROS DAY	DECLI-NA-TION (DEG)	RIGHT ASCEN-SION (DEG)	MINI-MUM NADIR (DEG)	TOT (MIN. AFTER ANO)	SPIN RATE (DEG /SEC)	MINU-TES W/R/T ANO	HOURS MINUTES SECONDS (GMT)	MINU-TES W/R/T ANO	FROM-	TO-	FMR TAPE REEL NO.
9985	1	152.59	19*25*22	4/24/65	675	44.8	45.6	11.5	27.9	64.793	-40.5	19*57* 3	31.7			972
9986	1	127.92	21* 2*46	4/24/65	675	44.7	46.1	11.5	28.1	64.787	-48.9	21*38*33	35.8			972
9995	1	-94.11	11*39*20	4/25/65	676	41.6	52.6	11.8	30.0	64.730	-88.9	11*47*33	8.2			973
9996	1	-118.77	13*16*44	4/25/65	676	41.1	53.0	12.0	30.2	64.723	-68.3	13*29*33	12.8			973
9999	1	167.20	18* 8*56	4/25/65	676	40.1	53.7	12.6	30.7	64.704	-47.9	18*39*33	30.6			973
10001	3	117.86	21*23*43	4/25/65	676	39.7	54.5	12.7	31.0	64.691	-53.2	21*46*58	23.3			973
10014	1	157.15	18*29*53	4/26/65	677	32.7	59.5	14.9	33.6	64.609	-40.1	19* 0*33	30.7			974
10015	1	132.48	20* 7*17	4/26/65	677	32.4	59.7	15.1	33.7	64.603	-53.9	20*42*33	35.3			974
10024	1	-89.58	10*43*51	4/27/65	678	26.7	63.2	16.3	35.7	64.546	-66.3	10*52*33	8.7			975
10025	1	-114.25	12*21*15	4/27/65	678	26.0	63.2	16.6	35.9	64.539	-65.8	12*33*33	12.3			975
10029	1	147.06	18*50*50	4/27/65	678	23.9	63.0	17.9	36.6	64.514	-58.3	19*23*33	32.7			975
10044	1	137.00	19*11*47	4/28/65	679	14.0	64.3	21.6	39.5	64.419	-51.9	19*45*33	33.8			976
10058	1	151.62	17*55*20	4/29/65	680	5.7	65.0	24.1	42.1	64.330	-44.5	18*27*33	32.2			977
10068	1	-95.08	10* 9*18	4/30/65	681	4.5	65.3	22.7	43.0	64.267	-66.3	10*18*33	9.3			978
10073	1	141.56	18*16*17	4/30/65	681	3.9	65.2	22.1	43.3	64.235	-8.9	18*49*33	33.3			978
10074	3	116.89	19*53*41	4/30/65	681	3.8	65.2	22.0	43.4	64.229	-51.6	20*16*33	22.9			978
10088	1	121.51	18*37*14	5/ 1/65	682	2.7	65.4	19.6	44.4	64.140	-26.0	19*12*33	35.3			979
10089	3	106.84	20*14*38	5/ 1/65	682	2.6	65.5	19.4	44.4	64.134	-49.0	20*39*33	24.9			979
10098	1	-115.19	10*51*12	5/ 2/65	683	2.0	65.8	17.6	44.9	64.077	-75.9	11* 3*33	12.4			980
10102	1	146.12	17*20*47	5/ 2/65	683	1.8	65.7	16.9	45.1	64.051	-44.9	17*53*33	32.8			980
10132	1	125.81	18* 2*40	5/ 4/65	685	-0.2	66.2	11.3	46.8	63.862	-29.8	18*39*33	36.9			981
10133	3	101.14	19*40* 4	5/ 4/65	685	-0.3	66.2	11.1	46.9	63.855	-44.0	20* 5*33	25.5			981
10145	1	165.08	15* 8*49	5/ 5/65	686	-1.1	66.3	8.8	47.6	63.779	-42.2	15*39*33	30.7			982
10146	1	140.41	16*46*13	5/ 5/65	686	-1.1	66.4	8.6	47.6	63.773	7.5	17*20*33	34.3			982
10160	1	155.02	15*29*46	5/ 6/65	687	-1.7	66.5	5.7	48.3	63.685	-10.9	16* 1*33	31.8			983
10161	1	130.35	17* 7*10	5/ 6/65	687	-1.8	66.5	5.5	48.3	63.678	-51.0	17*42*33	35.4			983

READOUT						ORBIT					TIME INTERVAL OF FILE ON FMR TAPE				
		SATELLITE EQUATOR CROSSING AT ORBITAL ASCENDING NODE (ANO)				SPIN VECTOR ATTITUDE					BEGIN	END		DROPOUTS, MINUTES W/R/T ANO	
ORBIT NO.	CDA STA	EARTH LONGI-TUDE (DEG)	HOURS MINUTES SECONDS (GMT)	CALENDAR DATE	TIROS DAY	DECLI-NA-TION (DEG)	RIGHT ASCEN-SION (DEG)	MINI-MUM NADIR (DEG)	TOT (MIN. AFTER ANO)	SPIN RATE (DEG /SEC)	MINU-TES W/R/T ANO	HOURS MINUTES SECONDS (GMT)	MINU-TES W/R/T ANO	FROM-	TO-	FMR TAPE REEL NO.
10175	1	144.95	15*50*42	5/ 7/65	688	-2.2	66.7	2.6	49.0	63.590	-56.3	16*23*33	32.9			984
10176	1	120.28	17*28* 6	5/ 7/65	688	-2.2	66.7	2.4	49.1	63.584	-50.4	17*51*33	23.5			984
10177	3	95.61	19* 5*30	5/ 7/65	688	-2.3	66.7	2.2	49.1	63.577	-61.1	19*31*33	26.1			984
10189	1	159.56	14*34*15	5/ 8/65	689	-2.5	66.9	-0.4	49.5	63.502	-41.1	15* 5*33	31.3			985
10190	1	134.89	16*11*39	5/ 8/65	689	-2.6	66.9	-0.6	49.6	63.495	-53.0	16*46* 3	34.4			985
10204	1	149.49	14*55*11	5/ 9/65	690	-2.8	67.0	-3.6	50.2	63.407	-44.0	15*27*33	32.4			986
10219	1	139.42	15*16* 8	5/10/65	691	-2.9	67.2	-6.9	50.9	63.313	-49.3	15*49*33	33.4			987
10220	3	114.75	16*53*31	5/10/65	691	-3.0	67.2	-7.1	50.9	63.306	-50.5	17*16*33	23.0			987
10229	1	-107.04	7*30* 5	5/11/65	692	-3.0	67.2	-9.0	51.2	63.250	-67.1	7*40*33	10.5			988
10248	1	144.22	14*20*36	5/12/65	693	-3.1	67.2	-13.0	52.0	63.130	-2.2	14*53*33	33.0			989
10264	3	109.49	16*18*56	5/13/65	694	-3.2	67.1	-16.3	52.6	63.030	-46.1	16*43*33	24.6			990
10277	1	148.78	13*25* 5	5/14/65	695	-3.1	67.0	-18.9	53.1	62.949	-57.8	13*57*33	32.5			991
10279	3	99.44	16*39*52	5/14/65	695	-3.1	67.0	-19.3	53.2	62.936	-46.7	17* 6*33	26.7			991
10307	1	128.67	14* 6*57	5/16/65	697	-3.6	66.1	-24.2	54.3	62.761	-56.0	14*42*33	35.6			992
10308	3	104.00	15*44*20	5/16/65	697	-3.8	66.1	-24.2	54.4	62.755	-48.3	16* 9*33	25.2			992
10335	1	157.88	11*34* 1	5/18/65	699	-9.6	64.5	-24.7	56.8	63.586	12.4	12* 6*33	32.5			993
10365	1	137.77	12*16*45	5/20/65	701	-15.7	63.0	-24.8	59.3	62.400	-32.1	12*50*33	33.8			994
10409	1	132.27	11*42*11	5/23/65	704	-28.3	63.8	-21.7	64.2	62.128	-37.1	12*17*33	35.4			995
10424	1	122.22	12* 3*12	5/24/65	705	-33.8	68.0	-19.7	66.6	62.036	-57.3	12*41*33	38.4			996
10437	1	161.50	9* 9*22	5/25/65	706	-33.7	68.0	-20.8	67.4	61.956	-21.6	9*40*33	31.2			997
10438	1	136.83	10*46*45	5/25/65	706	-33.7	68.0	-20.9	67.4	61.950	-52.7	11*20*33	33.8			997
10447	1	-85.20	1*23*20	5/26/65	707	-33.7	68.0	-21.6	68.0	61.895	-92.6	1*31*33	8.2			998
10448	1	-109.86	3* 0*44	5/26/65	707	-33.7	68.0	-21.6	68.1	61.889	-77.0	3*11*33	10.8			998
10452	1	151.44	9*30*19	5/26/65	707	-33.7	67.8	-21.9	68.3	61.864	-25.3	10* 2*33	32.2			998
10453	1	126.77	11* 7*43	5/26/65	707	-33.7	67.8	-22.0	68.3	61.858	-52.1	11*43*33	35.8			998
10454	3	102.11	12*45* 7	5/26/65	707	-33.7	67.8	-22.0	68.4	61.852	-48.7	13*10*33	25.4			998

READOUT						ORBIT					TIME INTERVAL OF FILE ON FMR TAPE				
		SATELLITE EQUATOR CROSSING AT ORBITAL ASCENDING NODE (ANO)				SPIN VECTOR ATTITUDE					BEGIN	END		DROPOUTS, MINUTES W/R/T ANO	
ORBIT NO.	COA STA	EARTH LONGI -TUDE (DEG)	HOURS MINUTES SECONDS (GMT)	CALENDAR DATE	TIROS DAY	DECLI -NA -TION (DEG)	RIGHT ASCEN -SION (DEG)	MINI -MUM NADIR (DEG)	TOT (MIN. AFTER ANO)	SPIN RATE (DEG /SEC)	MINU -TES W/R/T ANO	HOURS MINUTES SECONDS (GMT)	MINU -TES W/R/T ANO	FROM-	TO-	FMR TAPE REEL NO.
10463	1	-119.92	3*21*41	5/27/65	708	-33.7	67.6	-22.5	68.8	61.797	-70.6	3*34*33	12.9			999
10483	3	106.66	11*49*58	5/28/65	709	-33.8	66.9	-23.3	69.8	61.675	-46.6	12*14*33	24.9			1000
10491	1	-90.69	0*48*49	5/29/65	710	-33.8	66.7	-23.6	70.3	61.626	-66.2	0*58* 3	9.2			1001
10492	1	-115.36	2*26*13	5/29/65	710	-33.8	66.7	-23.6	70.4	61.620	-75.5	2*39* 3	12.8			1001
10496	1	145.95	8*55*48	5/29/65	710	-33.8	66.5	-23.7	70.6	61.596	-59.0	9*29* 3	33.3			1001
10510	1	160.57	7*39*22	5/30/65	711	-33.8	66.0	-24.1	71.3	61.511	-30.4	8*10*33	31.2			1002
10511	1	135.90	9*16*46	5/30/65	711	-33.8	66.0	-24.1	71.4	61.505	-52.8	9*52* 3	35.3			1002
10520	1	-86.12	23*53*21	5/30/65	711	-33.9	65.7	-24.2	71.8	61.450	-65.5	0* 2*33	9.2			1003
10525	1	150.52	8* 0*26	5/31/65	712	-33.9	65.5	-24.3	72.2	61.420	-30.2	8*34* 3	33.7			1003
10526	1	125.85	9*37*44	5/31/65	712	-33.9	65.5	-24.3	72.2	61.414	-50.5	10*13*33	35.8			1003
10535	1	-96.18	0*14*17	6/ 1/65	713	-33.4	64.7	-24.9	72.5	61.360	-22.4	0*23*33	9.3			1004
10536	1	-120.85	1*51*42	6/ 1/65	713	-33.6	64.8	-24.8	72.6	61.354	-75.9	2* 7* 3	15.4			1004
10540	1	140.43	8*21*18	6/ 1/65	713	-33.7	65.1	-24.6	72.9	61.330	-56.9	8*56* 3	34.8			1004
10541	3	115.76	9*58*41	6/ 1/65	713	-33.8	65.3	-24.5	73.0	61.324	-51.4	10*22*33	23.9			1004
10550	1	-106.26	0*35*16	6/ 2/65	714	-33.3	69.3	-24.5	74.6	61.270	-77.9	0*46* 3	10.8			1005
10554	1	155.04	7* 4*51	6/ 2/65	714	-32.9	69.6	-24.8	74.9	61.246	-39.6	7*37* 3	32.2			1005
10555	1	130.37	8*42*15	6/ 2/65	714	-33.0	69.8	-24.8	75.0	61.244	-51.3	9*18* 3	35.8			1005
10569	1	144.99	7*25*49	6/ 3/65	715	-30.8	73.8	-25.6	77.1	61.157	-7.2	8* 0* 3	34.2			1006
10570	3	120.32	9* 3*13	6/ 3/65	715	-30.8	74.0	-25.6	77.2	61.151	-49.8	9*27* 3	23.8			1006
10579	1	-101.70	23*39*48	6/ 3/65	715	-28.5	77.2	-26.0	78.7	61.095	-66.3	23*50* 3	10.3			1007
10583	1	159.61	6* 9*23	6/ 4/65	716	-27.5	77.1	-26.7	79.1	61.070	-38.1	6*41* 3	31.7			1007
10584	1	134.94	7*46*47	6/ 4/65	716	-27.4	77.1	-26.8	79.2	61.064	-50.4	8*22* 3	35.3			1007
10593	1	-87.08	22*23*21	6/ 4/65	716	-24.6	79.7	-27.4	80.7	61.008	-88.4	22*32*33	9.2			1008
10594	1	-111.76	0* 0*45	6/ 5/65	717	-24.2	79.7	-27.6	80.8	61.001	-75.5	0*13* 3	12.3			1008
10609	1	-121.81	0*21*43	6/ 6/65	718	-19.0	81.0	-29.7	83.0	60.909	-75.2	0*35*33	13.8			1009
10612	1	164.17	5*13*54	6/ 6/65	718	-18.0	80.5	-30.5	83.2	60.891	-48.7	5*44*33	30 -			1009

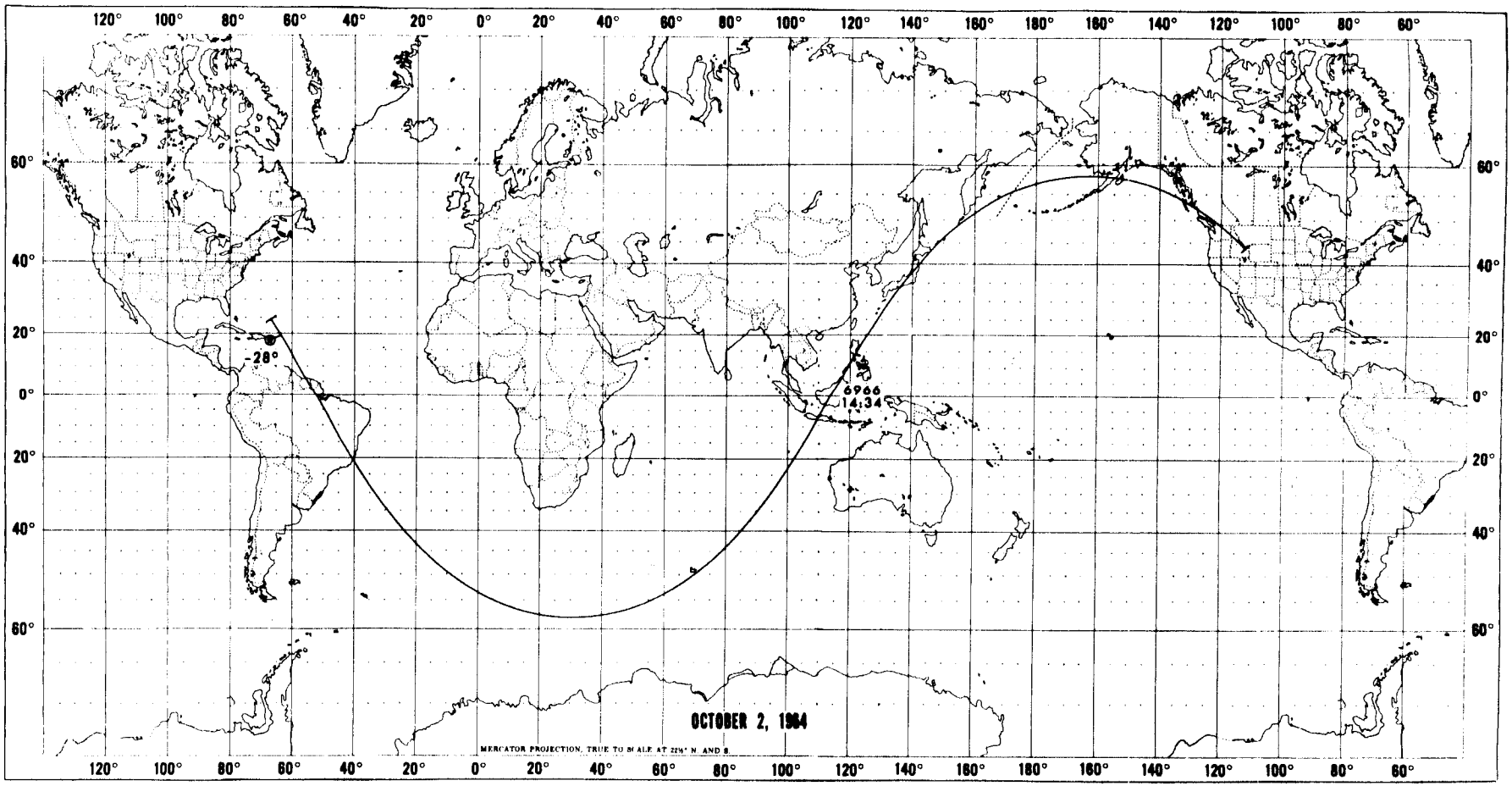
READOUT						ORBIT					TIME INTERVAL OF FILE ON FMR TAPE				
		SATELLITE EQUATOR CROSSING AT ASCENDING NODE (ANO)				SPIN VECTOR ATTITUDE					BEGIN	END		DROPOUTS, MINUTES W/R/T ANO		
ORBIT NO.	CDA STA	EARTH LONGI -TUDE (DEG)	HOURS MINUTES SECONDS (GMT)	CALENDAR DATE	TIROS DAY	DECLI -NA -TION (DEG)	RIGHT ASCEN -SION (DEG)	MINI -MUM NADIR (DEG)	TOT (MIN. AFTER ANO)	SPIN RATE (DEG /SEC)	MINU -TES W/R/T ANO	HOURS MINUTES SECONDS (GMT)	MINU -TES W/R/T ANO	FROM-	TO-	FMR TAPE REEL NO.
10627	1	154.12	5*34*52	6/ 7/65	719	-13.3	80.7	-32.3	85.1	60.800	-33.5	6* 6*33	31.7			1010
10628	1	129.44	7*12*15	6/ 7/65	719	-13.3	80.6	-32.2	85.1	60.794	-51.2	7*47*33	35.3			1010
10629	3	104.77	8*49*39	6/ 7/65	719	-13.3	80.6	-32.1	85.2	60.788	-45.6	9*14*33	24.9			1010
10637	1	-92.58	21*48*50	6/ 7/65	719	-13.2	80.0	-31.3	85.6	60.740	-34.5	21*57*33	8.7			1011
10638	1	-117.25	23*26*14	6/ 7/65	719	-13.3	79.9	-31.2	85.7	60.734	-75.9	23*38*33	12.3			1011
10642	1	144.06	5*55*49	6/ 8/65	720	-13.3	79.6	-30.7	85.8	60.710	-58.7	6*29* 3	33.2			1011
10652	1	-102.63	22* 9*48	6/ 8/65	720	-13.3	78.8	-29.5	86.2	60.624	-6.3	22*20* 3	10.3			1012
10656	1	158.68	4*39*23	6/ 9/65	721	-13.3	78.5	-29.1	86.3	60.597	-39.9	5*10*33	31.2			1012
10657	1	134.01	6*16*47	6/ 9/65	721	-13.3	78.5	-29.0	86.4	60.591	-53.3	6*51*33	34.8			1012
10658	3	109.34	7*54*11	6/ 9/65	721	-13.3	78.4	-28.9	86.4	60.584	0.9	8*18*33	24.4			1012
10671	1	148.62	5* 0*21	6/10/65	722	-12.8	77.9	-27.4	87.1	60.498	-44.5	5*33*33	33.2			1013
10681	1	-98.07	21*14*19	6/10/65	722	-12.4	77.6	-26.2	87.7	60.431	-92.9	21*25* 3	10.7			1014
10686	1	138.57	5*21*18	6/11/65	723	-12.4	77.3	-25.5	87.9	60.397	-57.2	5*56* 3	34.8			1014
10695	1	-83.45	19*57*52	6/11/65	723	-12.6	77.0	-24.0	88.3	60.337	-68.2	20* 6*33	8.7			1015
10696	1	-108.12	21*35*16	6/11/65	723	-12.7	76.9	-23.8	88.3	60.330	-76.2	21*46*33	11.3			1015
10700	1	153.19	4* 4*51	6/12/65	724	-12.8	76.8	-23.1	88.4	60.304	-40.5	4*37*33	32.7			1015
10701	1	128.52	5*42*15	6/12/65	724	-12.8	76.7	-23.0	88.5	60.297	-52.3	6*18*33	36.3			1015
10710	1	-93.50	20*18*50	6/12/65	724	-13.0	76.4	-21.4	88.9	60.236	-66.8	20*28* 3	9.2			1016
10711	1	-118.17	21*56*13	6/12/65	724	-13.0	76.4	-21.2	88.9	60.230	-74.6	22* 9*33	13.3			1016
10716	3	118.46	6* 3*13	6/13/65	725	-13.1	76.2	-20.4	89.1	60.196	-51.8	6*26*33	23.3			1016
10729	1	157.76	3* 9*22	6/14/65	726	-13.3	75.8	-18.1	89.5	60.109	-48.9	3*40*33	31.2			1017
10730	1	133.08	4*46*46	6/14/65	726	-13.3	75.8	-17.9	89.5	60.102	-52.5	5*21*33	34.8			1017
10740	1	-113.61	21* 0*45	6/14/65	726	-13.5	75.5	-16.1	89.9	60.035	-25.2	21*15*33	14.8			1018
10744	3	147.70	3*30*20	6/15/65	727	-13.5	75.4	-15.4	90.1	60.008	-39.0	3*50*33	20.2			1018
10745	3	123.03	5* 7*44	6/15/65	727	-13.6	75.4	-15.2	90.2	60.002	-63.0	5*30*33	22.8			1018
10754	1	-98.99	19*44*18	6/15/65	727	-13.6	75.2	-13.6	90.5	59.941	-48.5	19*53*33	9.3			1019

READOUT						ORBIT					TIME INTERVAL OF FILE ON FMR TAPE				
		SATELLITE EQUATOR CROSSING AT ORBITAL ASCENDING NODE (ANO)				SPIN VECTOR ATTITUDE					BEGIN	END		DROPOUTS, MINUTES W/R/T ANO	
ORBIT NO.	CDA STA.	EARTH LONGI-TUDE (DEG)	HOURS MINUTES SECONDS (GMT)	CALENDAR DATE	TIROS DAY	DECLI-NA-TION (DEG)	RIGHT ASCEN-SION (DEG)	MINI-MUM NADIR (DEG)	TOT (MIN. AFTER ANO)	SPIN RATE (DEG/SEC)	MINU-TES W/R/T ANO	HOURS MINUTES SECONDS (GMT)	MINU-TES W/R/T ANO	FROM-	TO-	FMR TAPE REEL NO.
10760	3	112.98	5*28*41	6/16/65	728	-13.7	75.0	-12.5	90.7	59.901	-51.7	5*51*33	22.9			1019
10774	1	127.59	4*12*15	6/17/65	729	-13.3	74.8	-10.0	91.2	59.808	-45.2	4*47*33	35.3			1020
10784	1	-119.69	20*26*13	6/17/65	729	-4.7	75.1	-12.7	93.7	59.742	-80.4	20*39*33	13.3			1021
10787	1	166.89	1*18*25	6/18/65	730	-4.4	75.0	-12.3	93.8	59.722	-47.6	1*48*33	30.1			1021
10788	1	142.21	2*55*49	6/18/65	730	-4.3	75.0	-12.2	93.9	59.715	-14.8	3*28*33	32.7			1021
10789	3	117.54	4*33*12	6/18/65	730	-4.3	74.9	-12.0	93.9	59.709	-51.2	4*56*33	23.4			1021
10798	1	-104.48	19* 9*47	6/18/65	730	-3.7	75.0	-10.5	94.4	59.650	-73.1	19*19*33	9.8			1022
10803	1	132.16	3*16*46	6/19/65	731	-3.8	74.8	-9.5	94.5	59.617	-31.9	3*51*33	34.8			1022
10804	3	107.49	4*54*10	6/19/65	731	-3.8	74.8	-9.3	94.6	59.610	-46.0	5*18*33	24.4			1022
10812	1	-89.86	17*53*20	6/19/65	731	-3.9	74.6	-7.7	94.8	59.558	-89.3	18* 3* 3	9.7			1023

APPENDIX B

SUBPOINT TRACK SUMMARY OF AVAILABLE RADIATION DATA

In this section, the time interval for which radiation data are available on the FMR Tapes for TIROS VII from October 1, 1964 to June 19, 1965 is summarized diagrammatically by means of subpoint tracks for each interrogation day. As discussed previously, an interrogation day may be contained within the calendar day, or it may consist of 2 calendar days. This method of presentation enables the data user to quickly appraise the orbits containing data in an area of interest. Additional information illustrating the use of the Subpoint Track Summaries is explained in Appendix B, Volume 1.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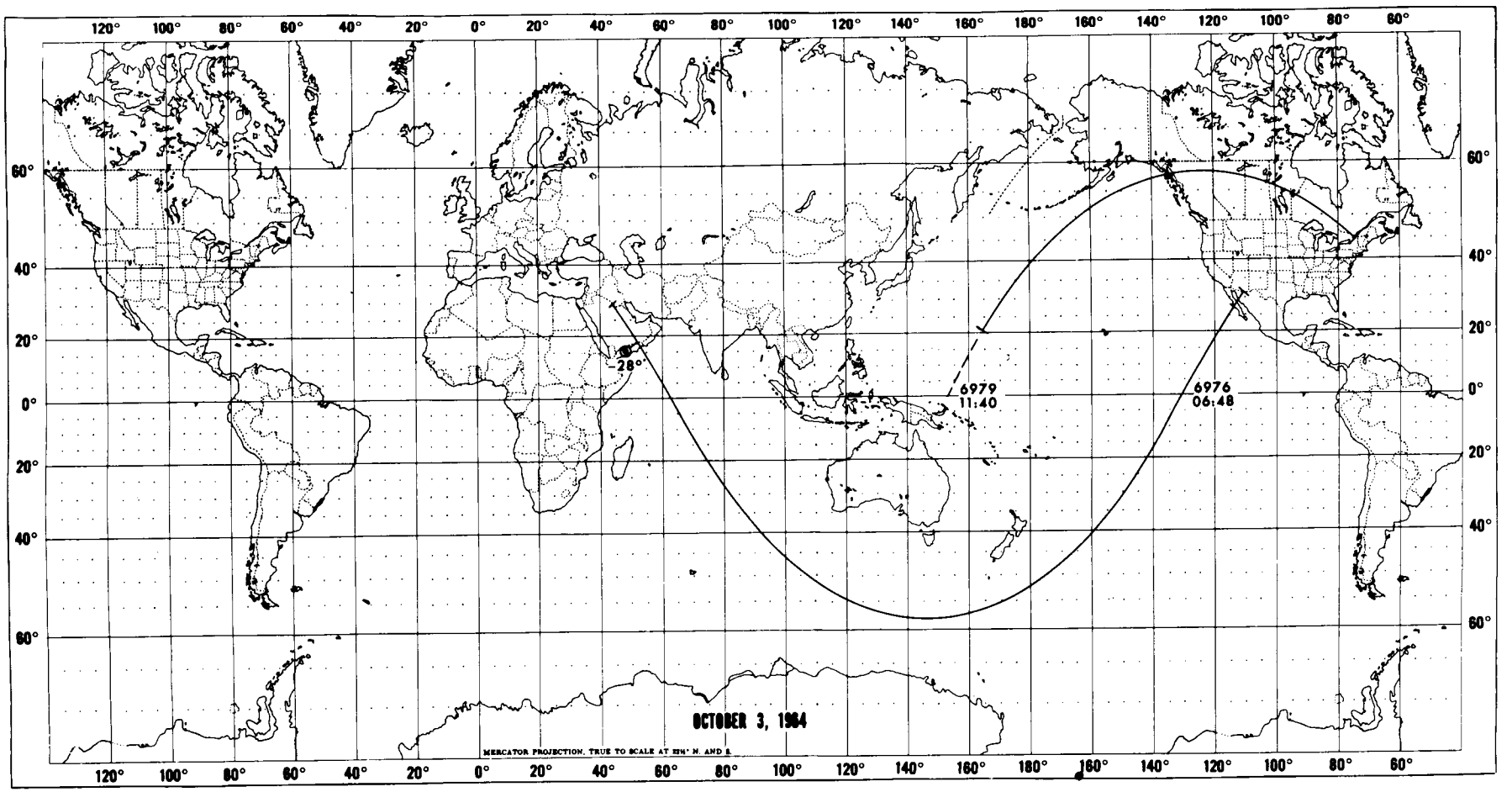
60°
40°
20°
0°
20°
40°
60°
-28°
6966
14:34
OCTOBER 2, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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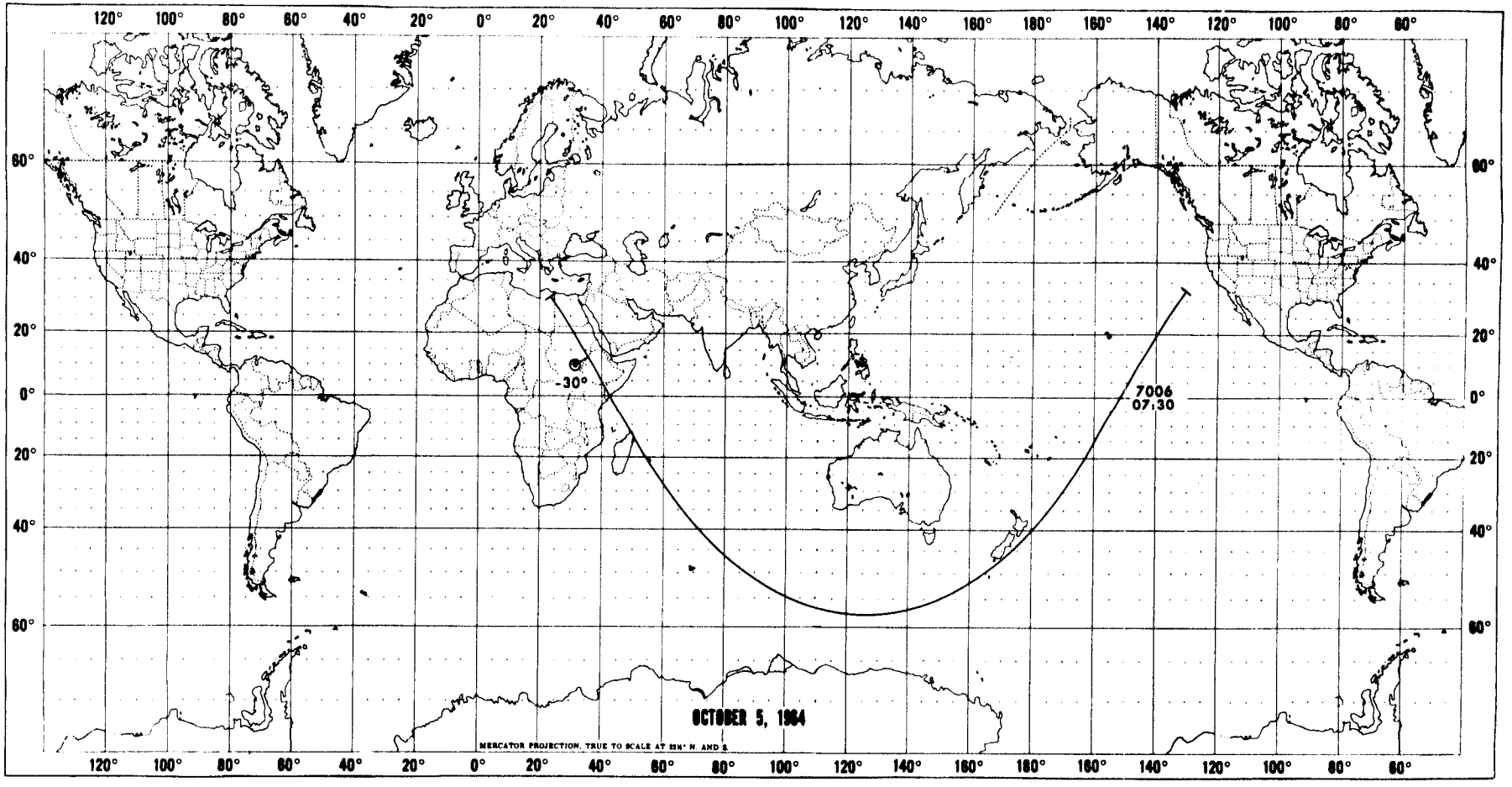
60°
40°
20°
0°
20°
40°
60°
28°
6979
11:40
6976
06:48
OCTOBER 3, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 33½° N. AND S.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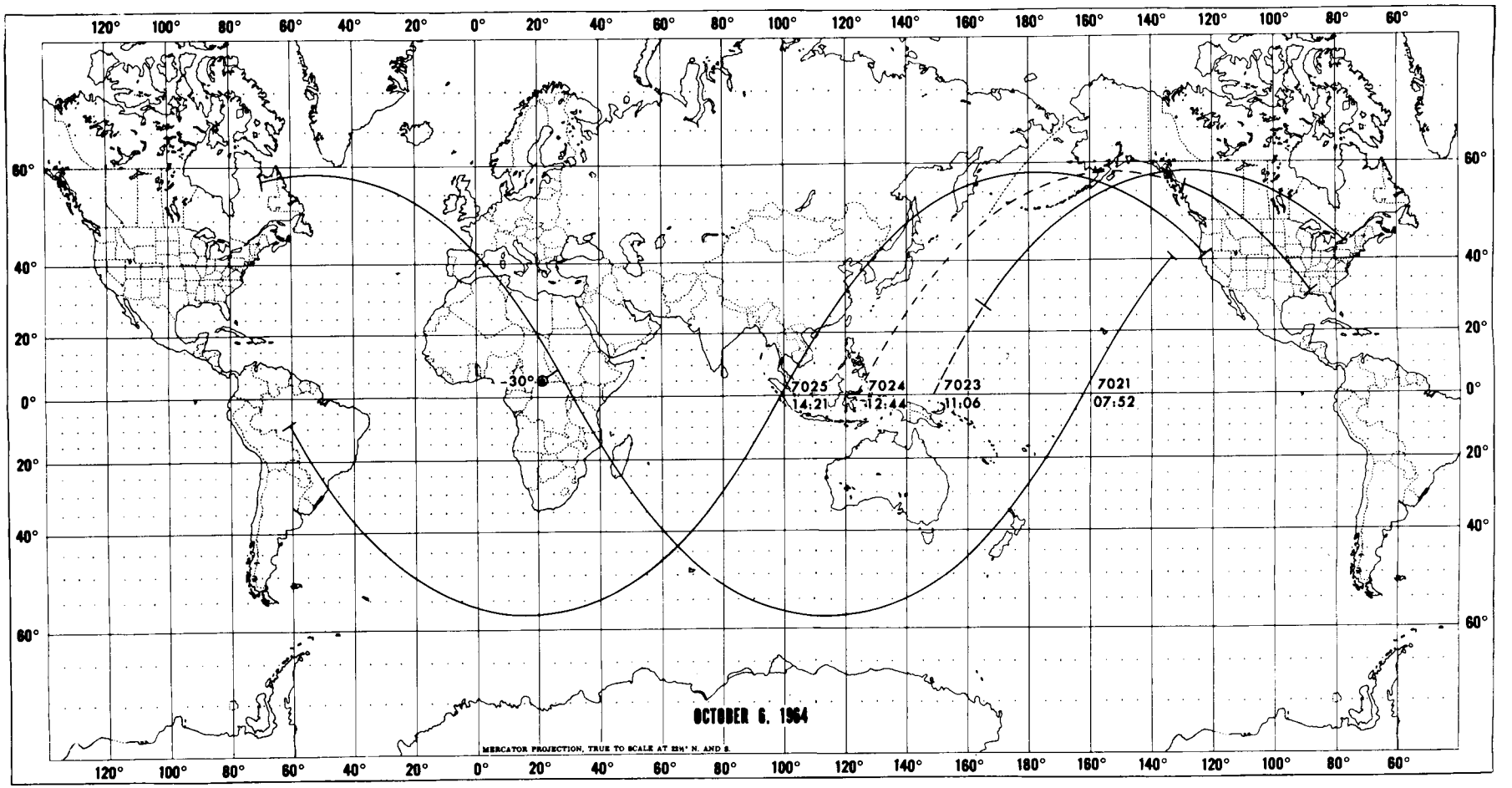
60°
40°
20°
0°
20°
40°
60°
-30°
7006
07:30
OCTOBER 5, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 33½° N. AND S.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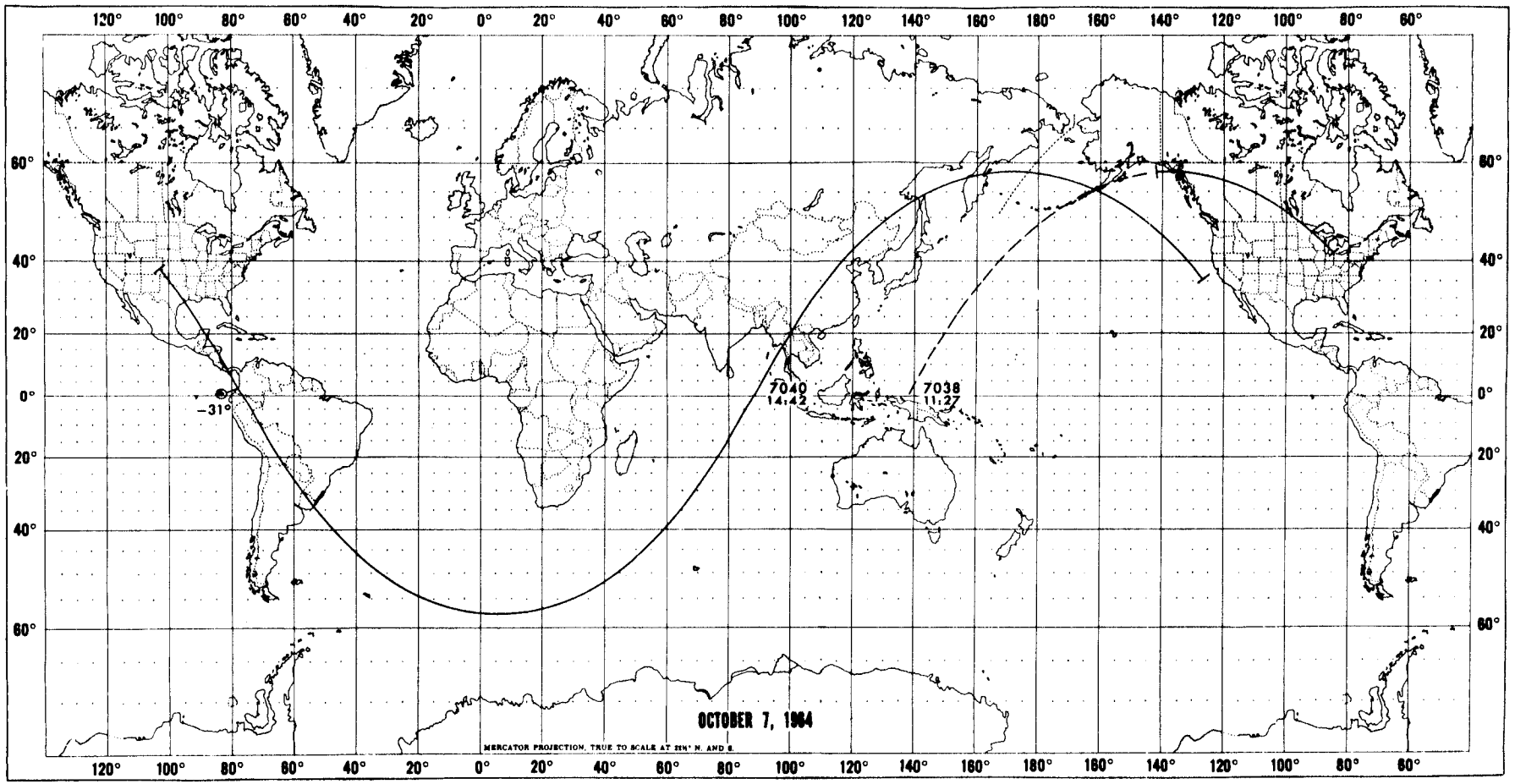
60°
40°
20°
0°
20°
40°
60°
-30°
7025
14:21
7024
12:44
7023
11:06
7021
07:52
OCTOBER 6, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT EQUATOR N. AND S.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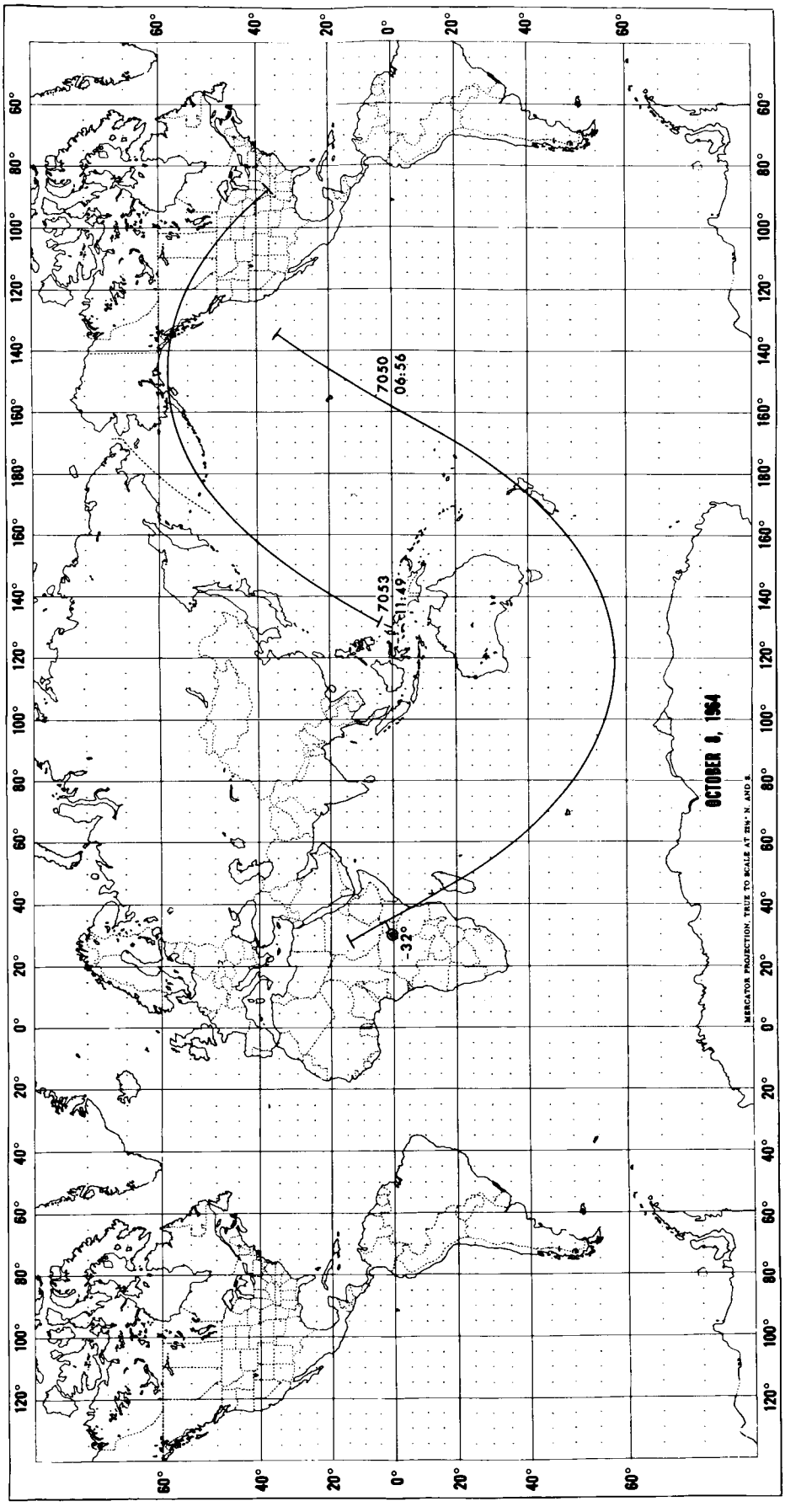
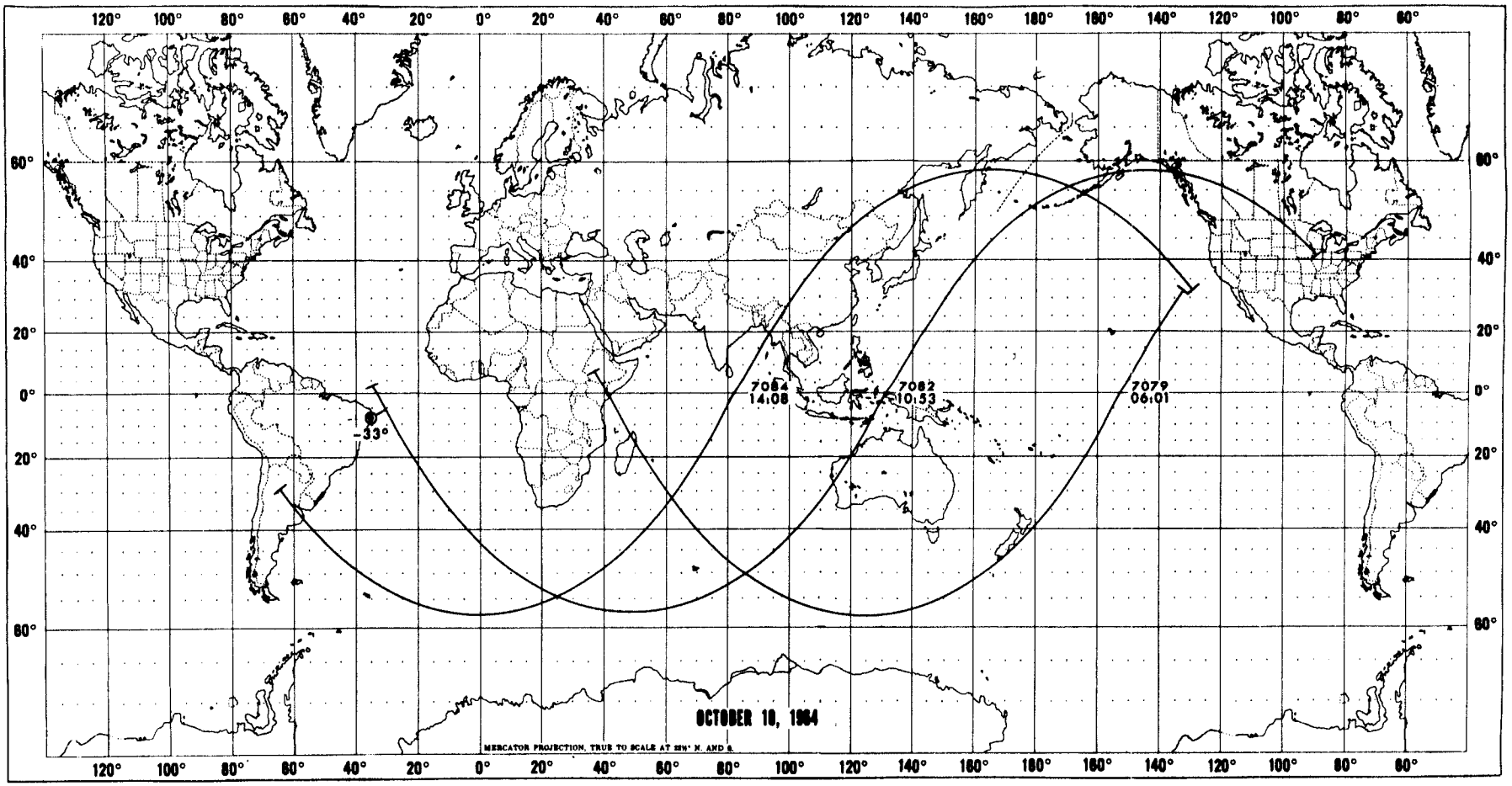
60°
40°
20°
0°
20°
40°
60°
-31°
7040
14:42
7038
11:27
OCTOBER 7, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 28½° N. AND S.


7050
06:56
7053
11:49
-32°
OCTOBER 8, 1964
MERCATOR PROJECTION. TRUE TO SCALE AT 28N - N. AND S.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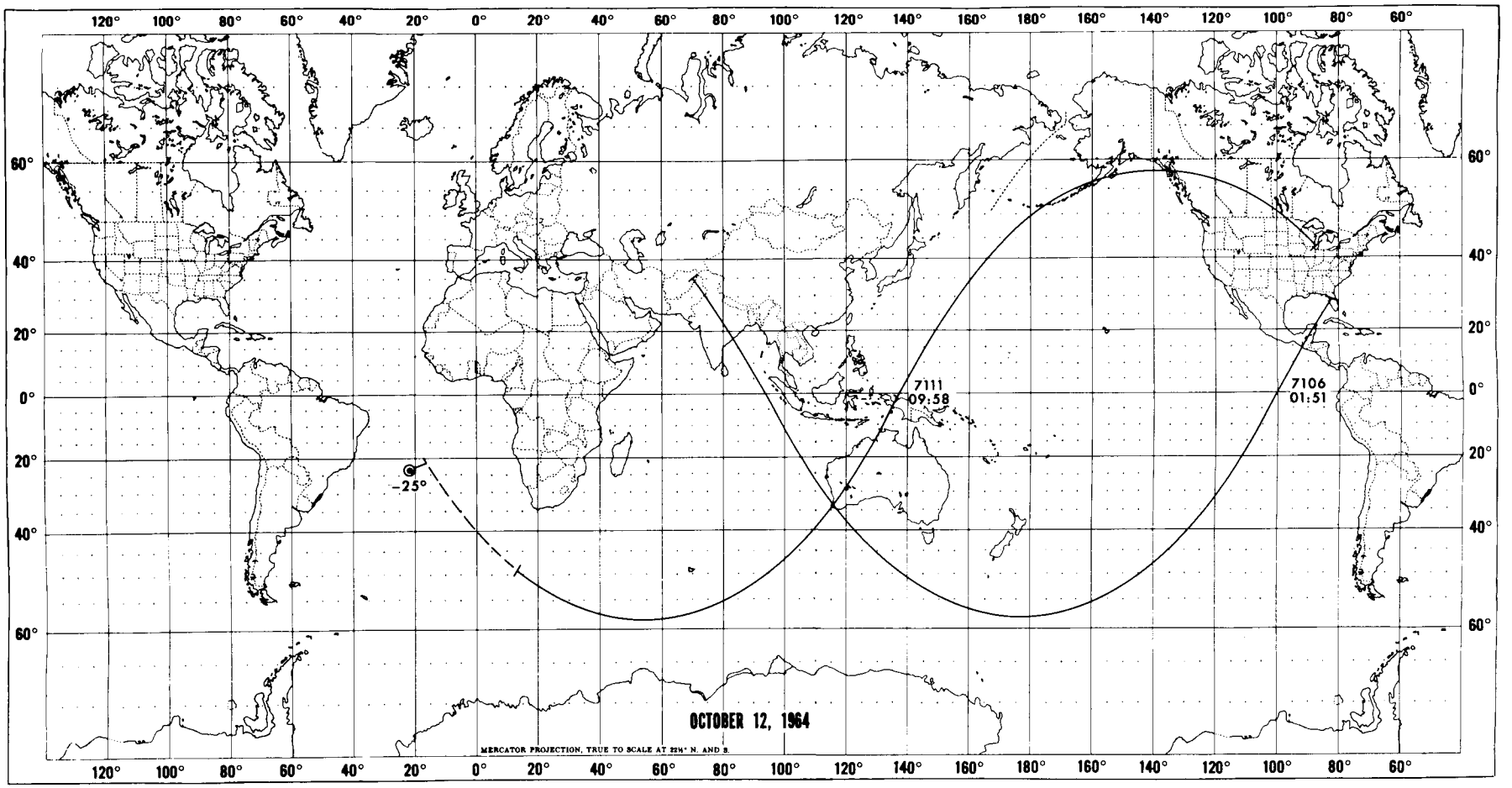
60°
40°
20°
0°
20°
40°
60°
7084
14:08
7082
10:53
7079
06:01
33°
OCTOBER 10, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 33½° N. AND S.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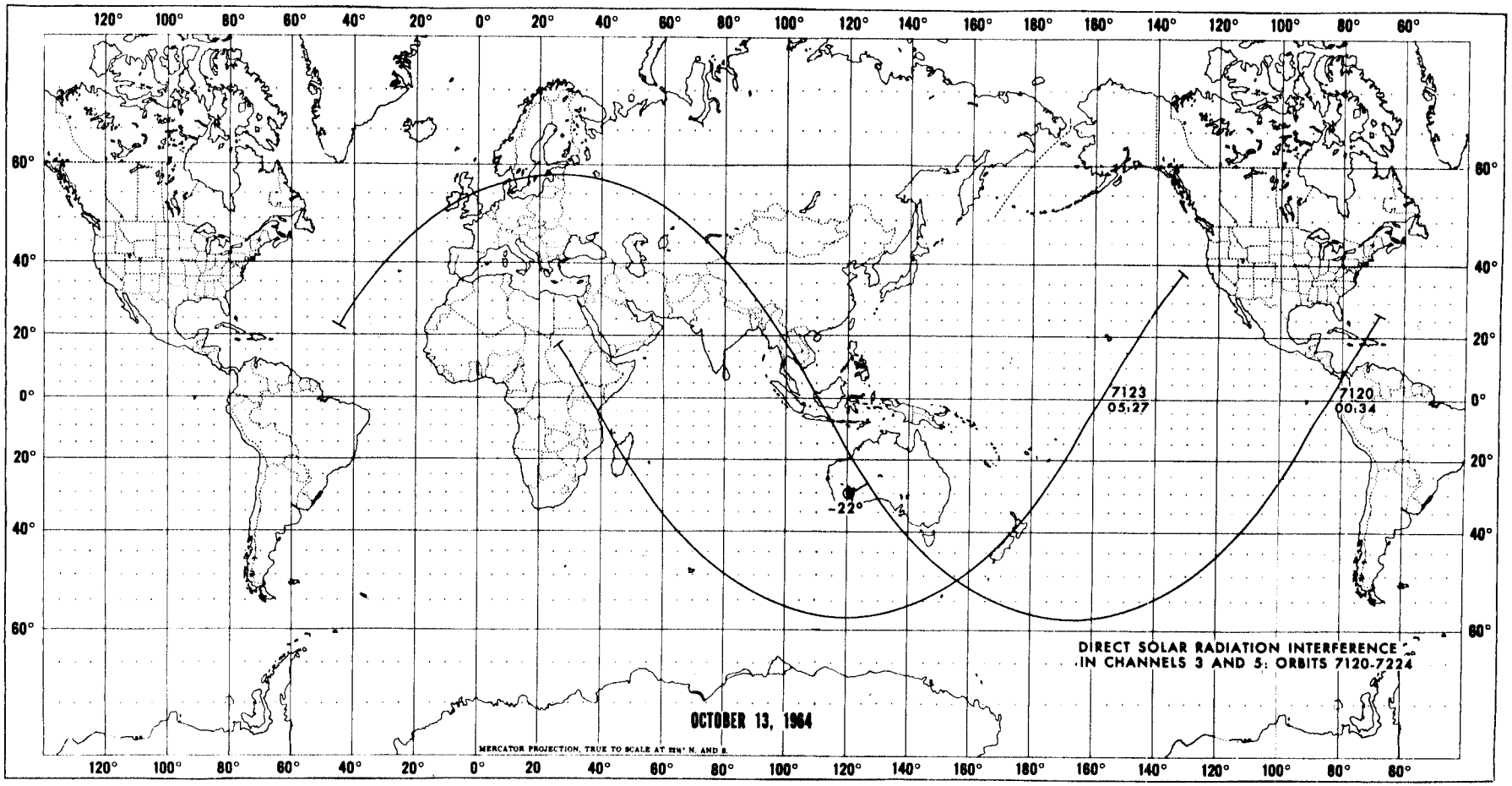
60°
40°
20°
0°
20°
40°
60°
7111
09:58
7106
01:51
-25°
OCTOBER 12, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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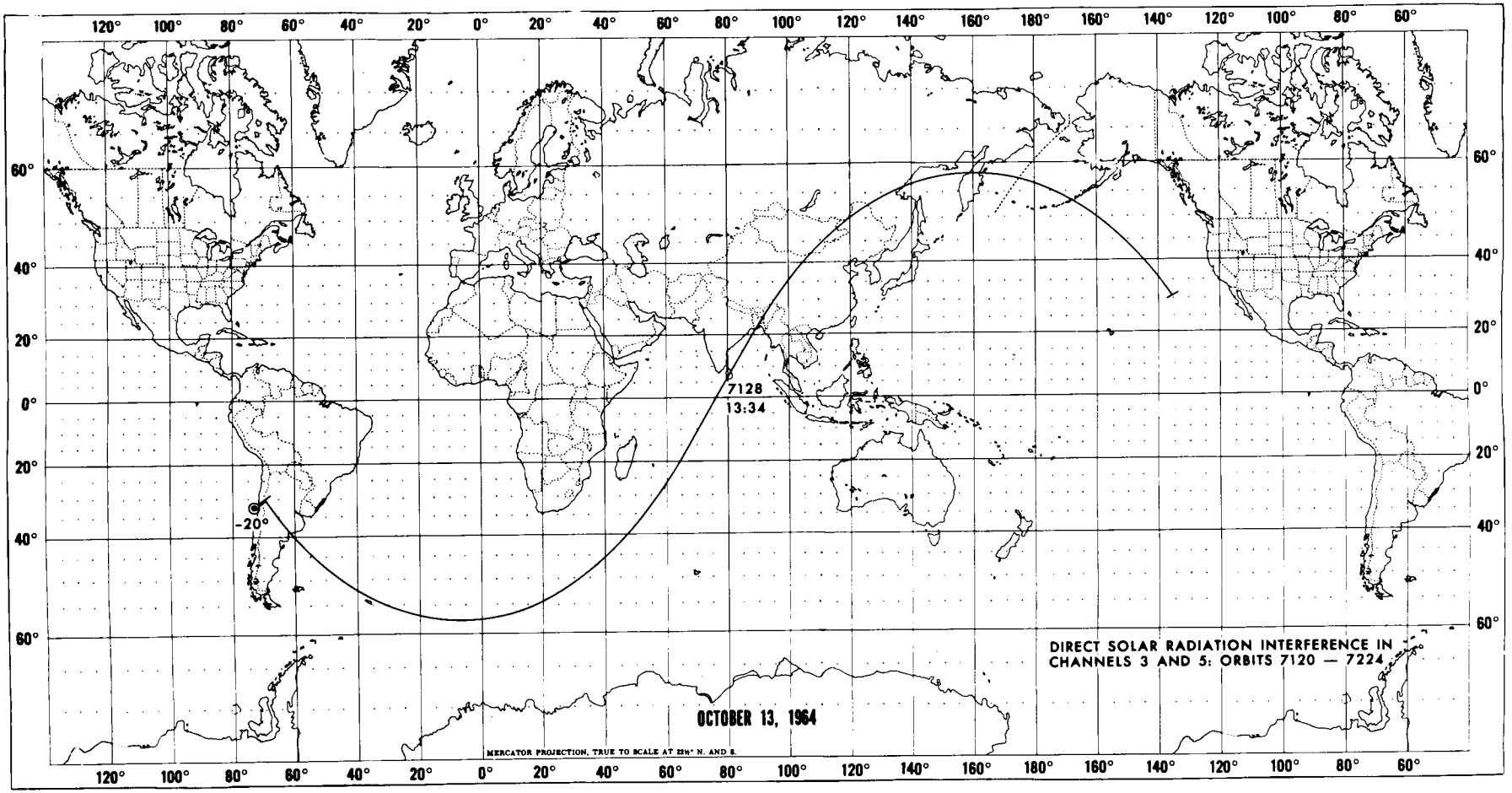
60°
40°
20°
0°
20°
40°
60°
7123
05:27
7120
00:34
-22°
DIRECT SOLAR RADIATION INTERFERENCE
IN CHANNELS 3 AND 5: ORBITS 7120-7224
OCTOBER 13, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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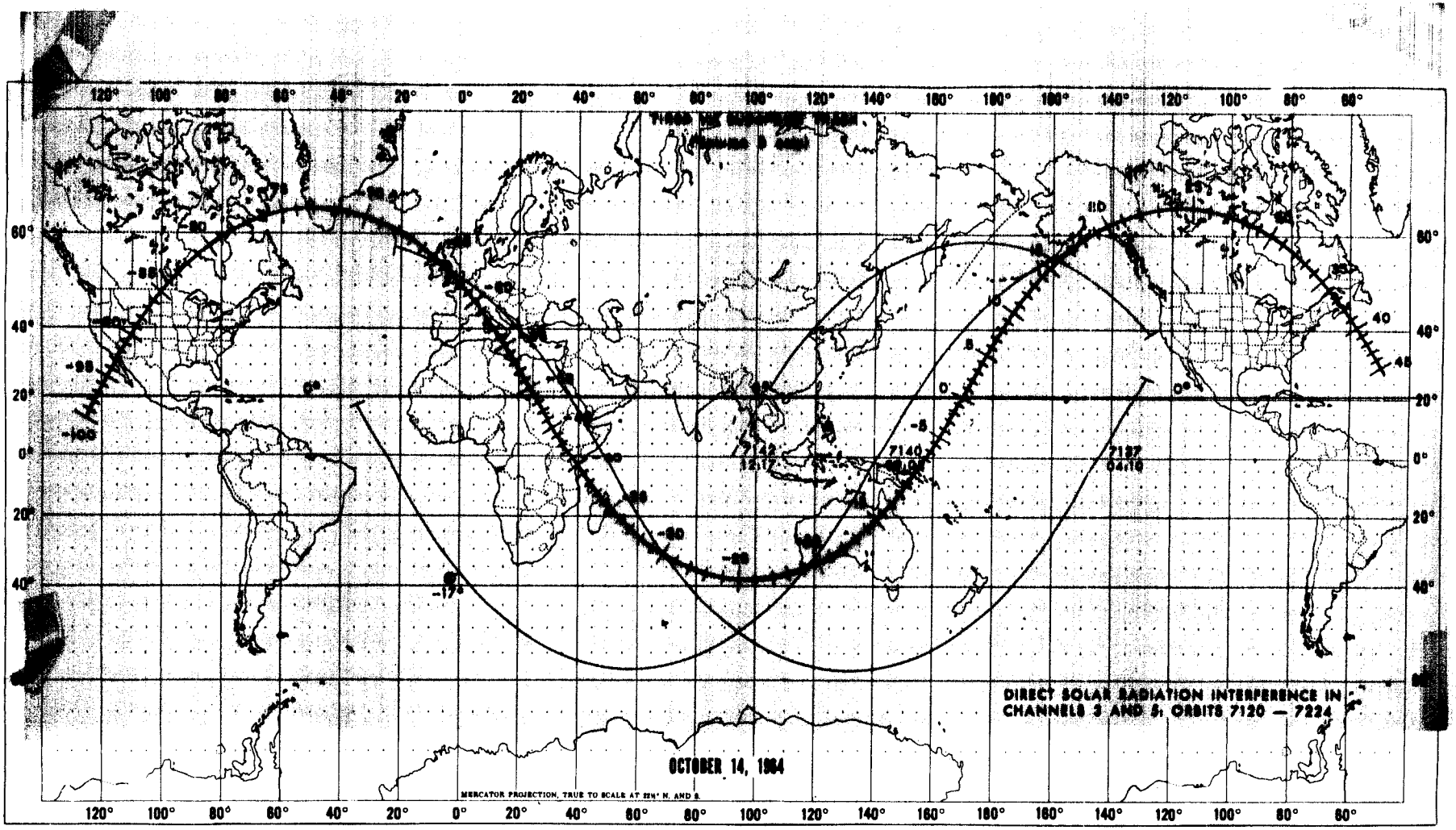
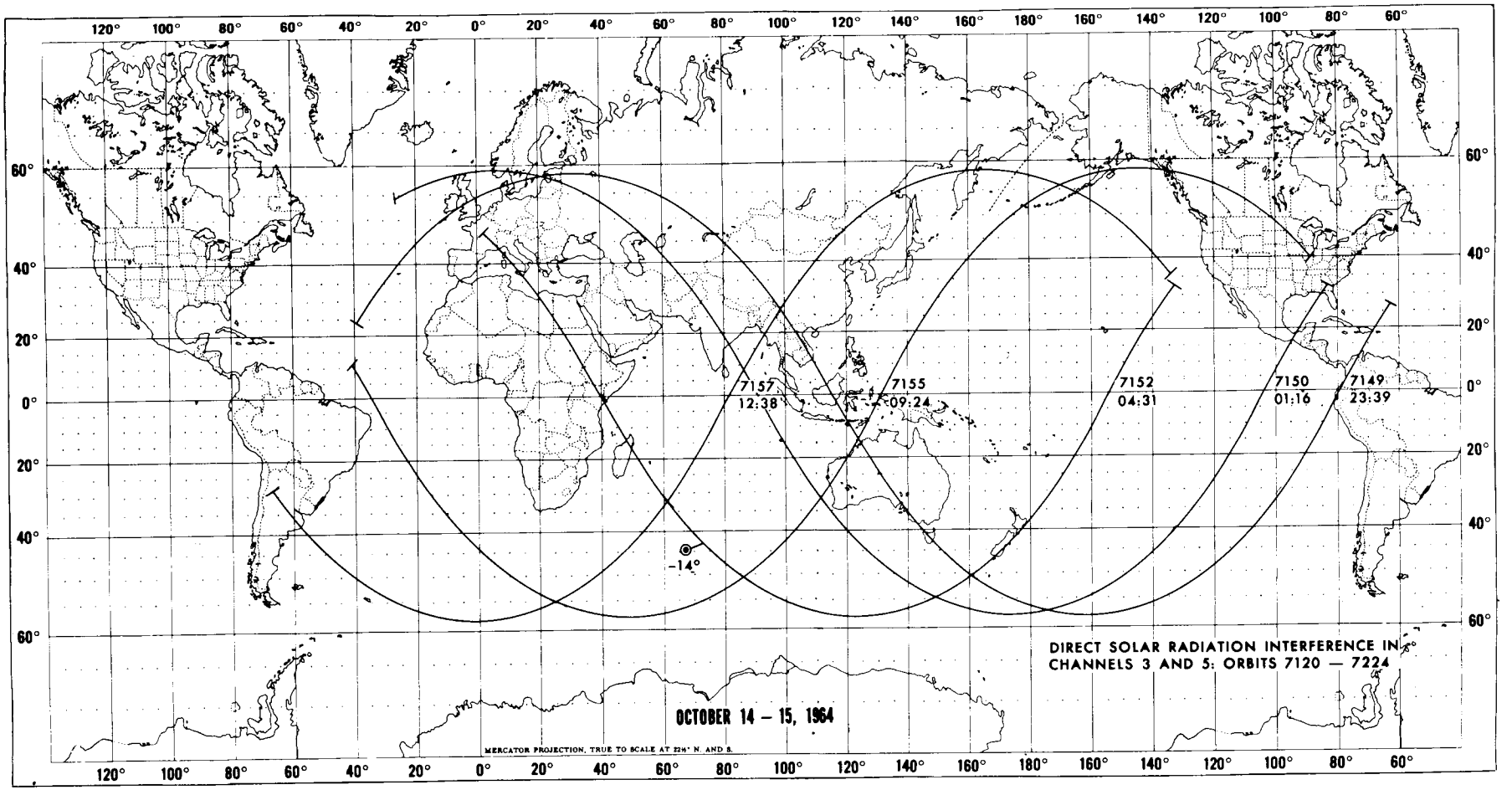
60°
40°
20°
0°
20°
40°
60°
7128
13:34
-20°
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5: ORBITS 7120 — 7224
OCTOBER 13, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.


DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5, ORBITS 7120 — 7224
OCTOBER 14, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.
7140
7137
04.16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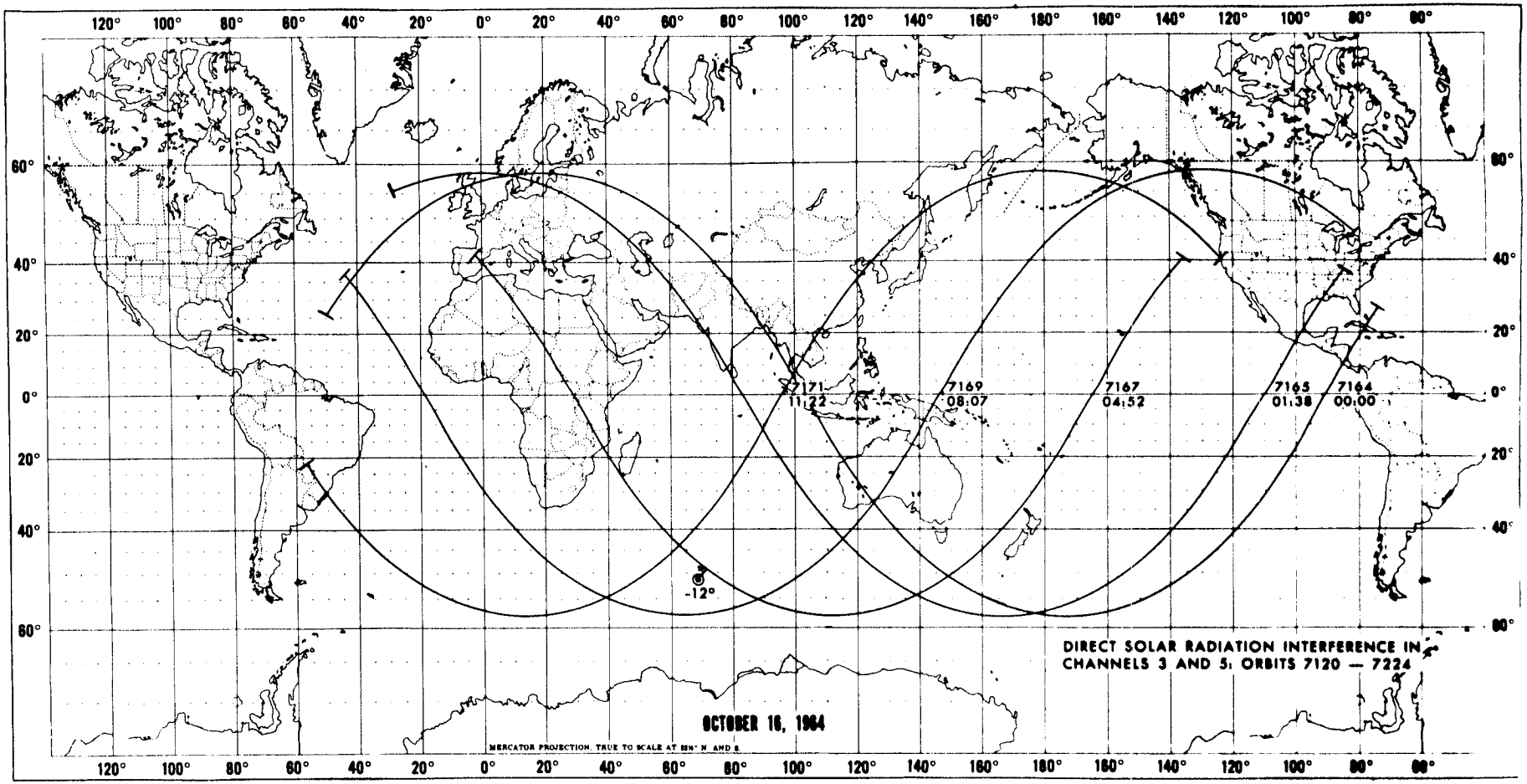
60°
40°
20°
0°
20°
40°
60°
7157
12:38
7155
09:24
7152
04:31
7150
01:16
7149
23:39
-14°
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5: ORBITS 7120 — 7224
OCTOBER 14 – 15, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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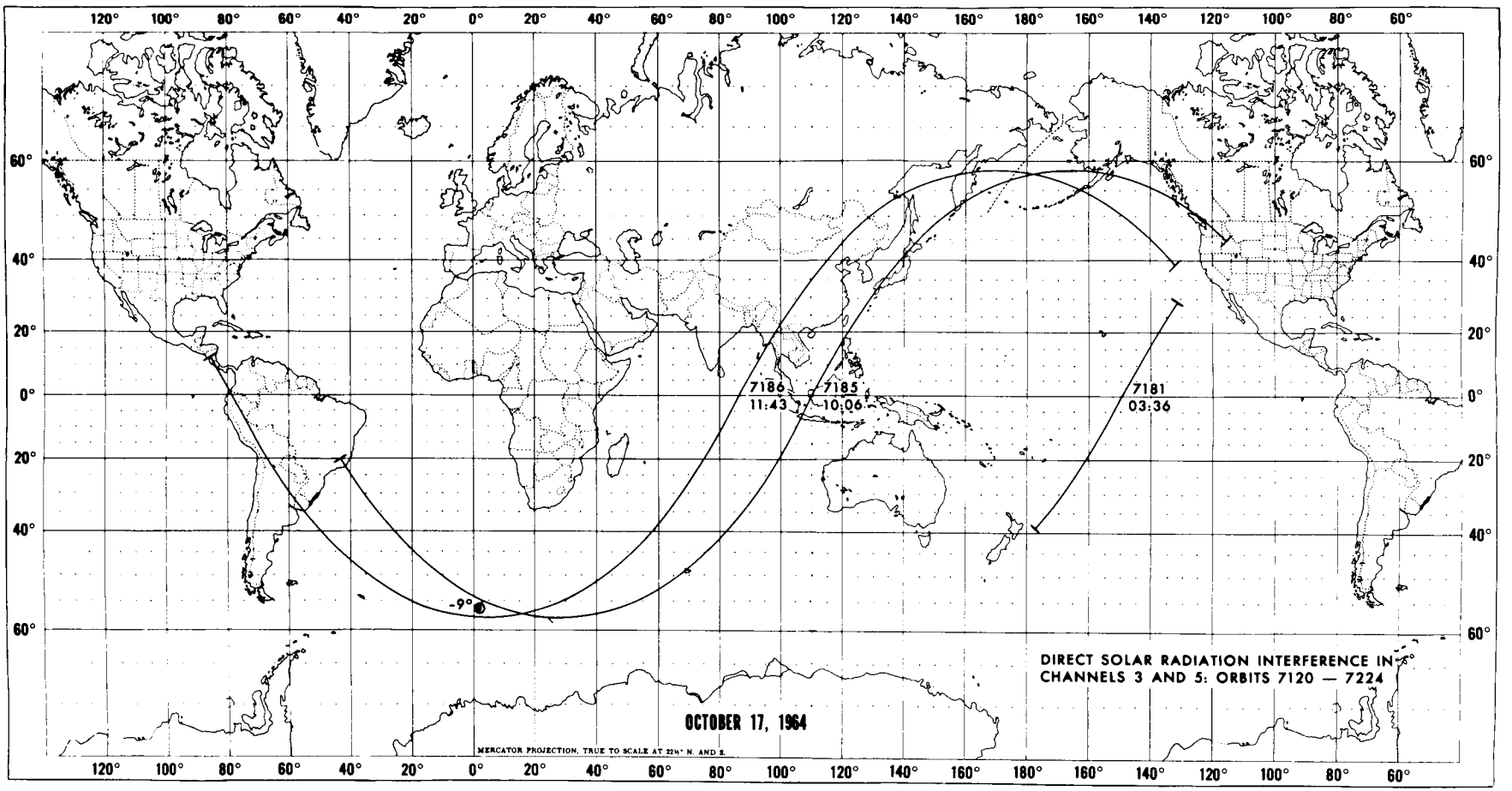
60°
40°
20°
0°
20°
40°
60°
7171
11:22
7169
08:07
7167
04:52
7165
01:38
7164
00:00
-12°
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5; ORBITS 7120 — 7224
OCTOBER 16, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 88° N AND S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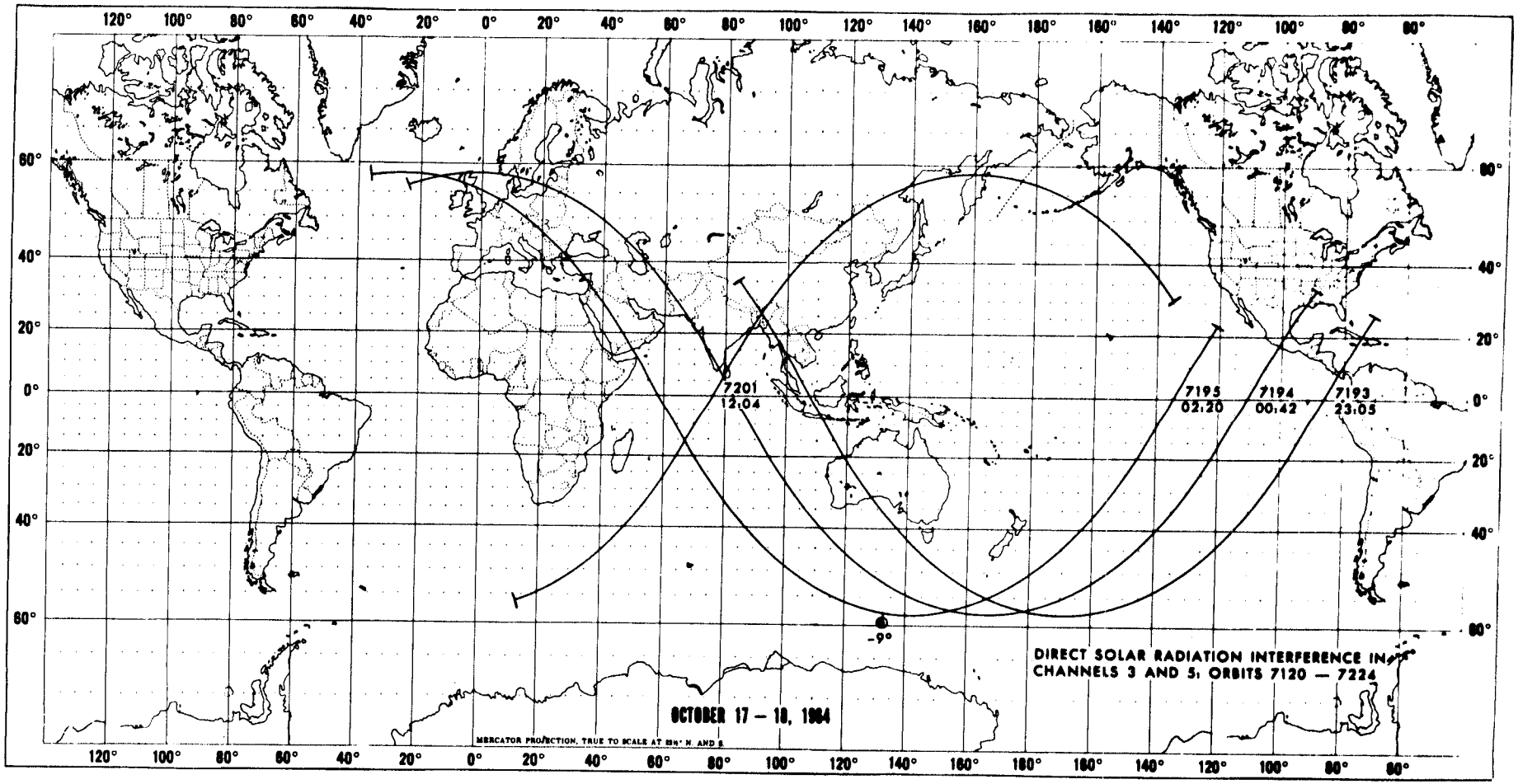
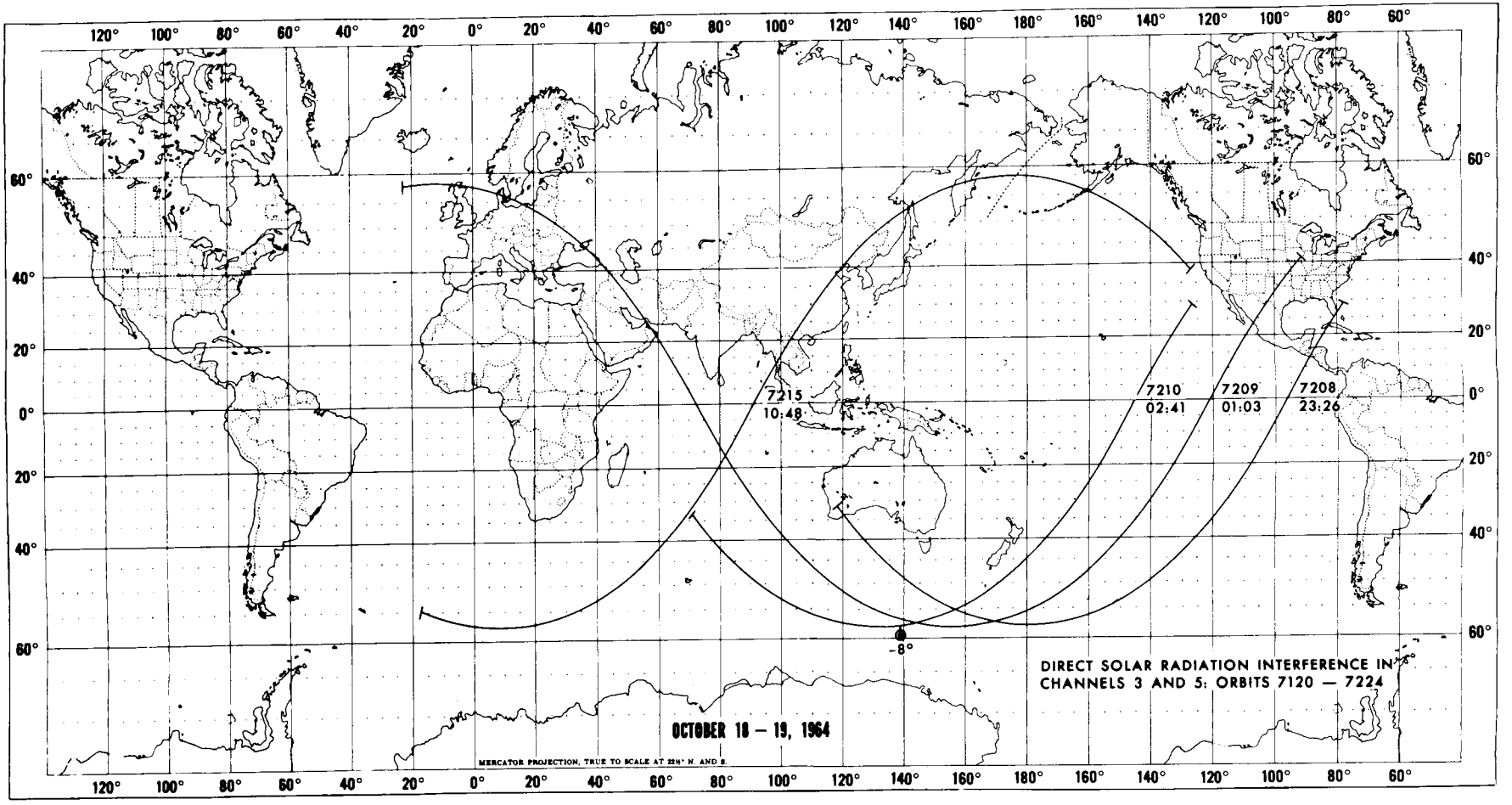
60°
40°
20°
0°
20°
40°
60°
7186
11:43
7185
10:06
7181
03:36
-9°
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5: ORBITS 7120 — 7224
OCTOBER 17, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.


7201
12:04
7195
02:20
7194
00:42
7193
23:05
-9°
DIRECT SOLAR RADIATION INTERFERENCE IN
CHANNELS 3 AND 5; ORBITS 7120 — 7224
OCTOBER 17 — 18, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 30° N. AND S.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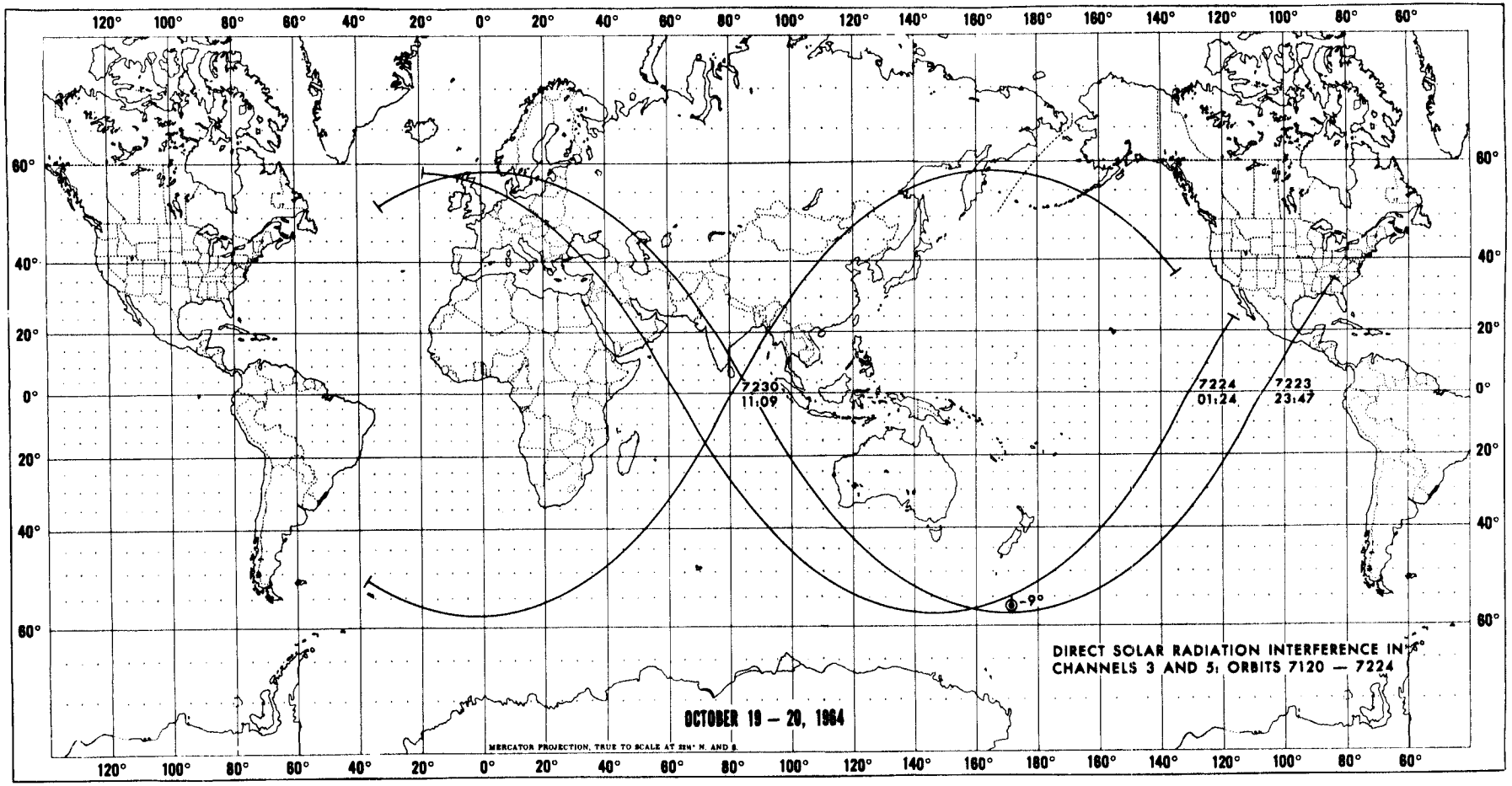
60°
40°
20°
0°
20°
40°
60°
7215
10:48
7210
02:41
7209
01:03
7208
23:26
-8°
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5: ORBITS 7120 — 7224
OCTOBER 18 — 19, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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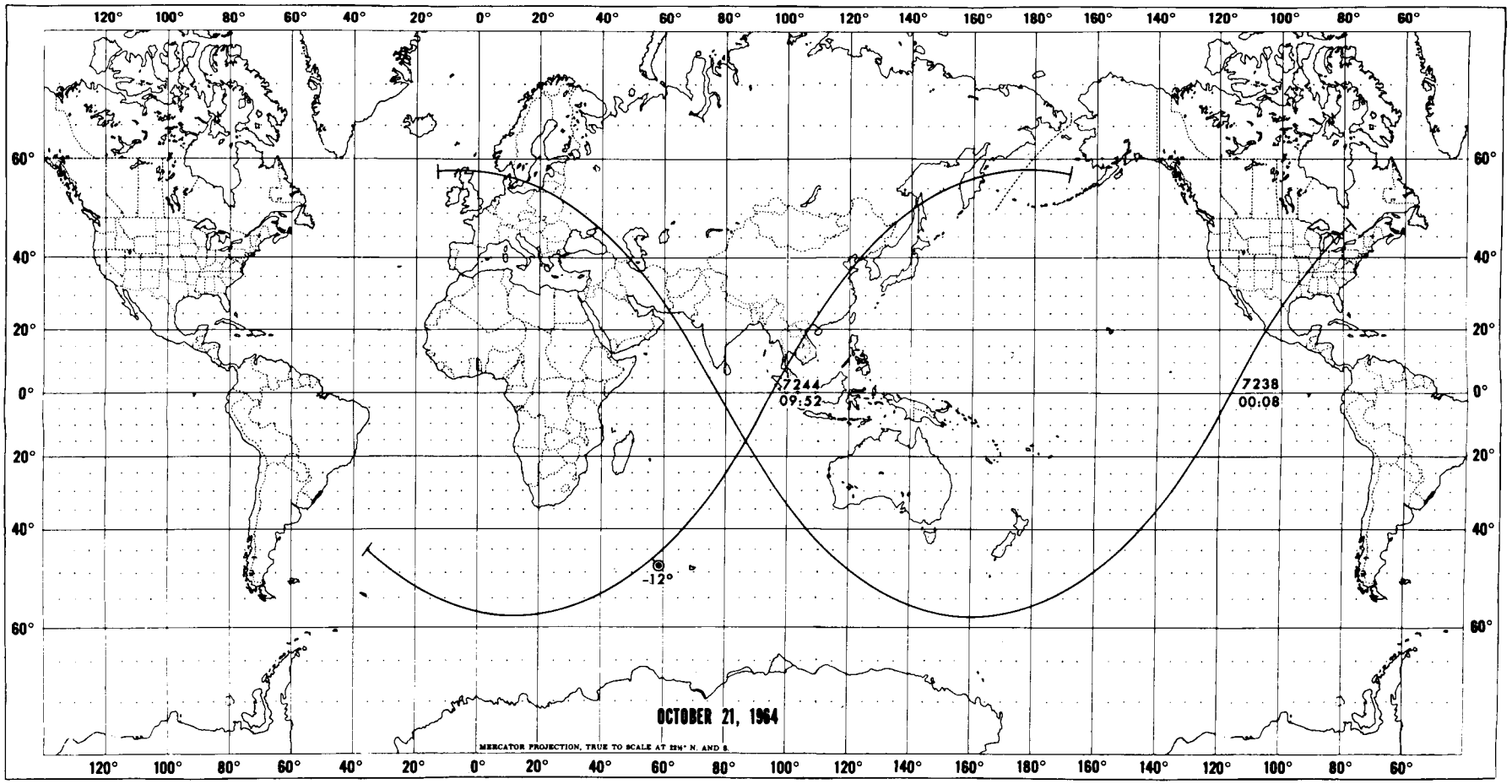
60°
40°
20°
0°
20°
40°
60°
7230
11:09
7224
01:24
7223
23:47
-9°
DIRECT SOLAR RADIATION INTERFERENCE IN
CHANNELS 3 AND 5, ORBITS 7120 — 7224
OCTOBER 19 — 20, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 28½° N. AND S.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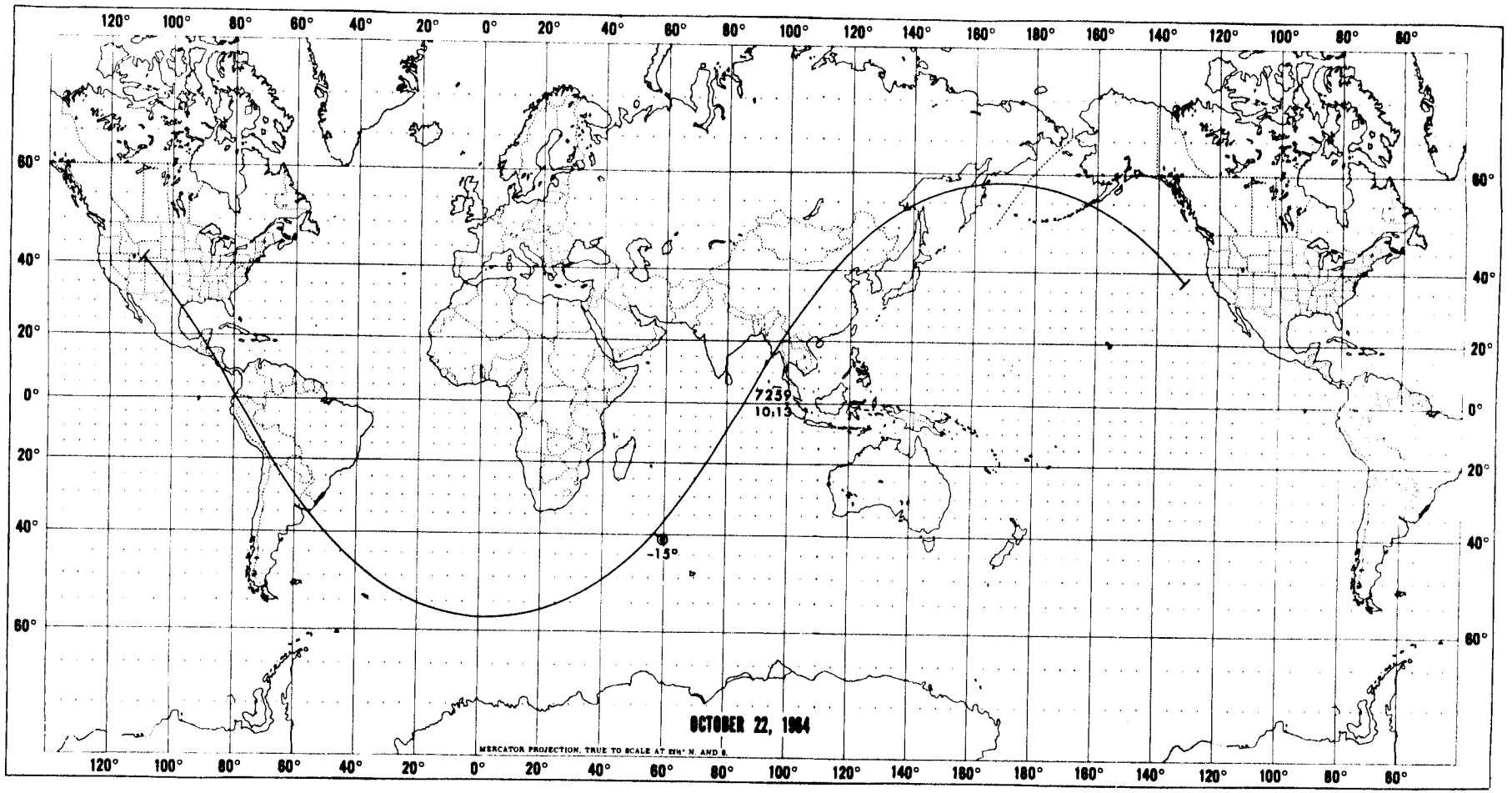
60°
40°
20°
0°
20°
40°
60°
7244
09:52
7238
00:08
-12°
OCTOBER 21, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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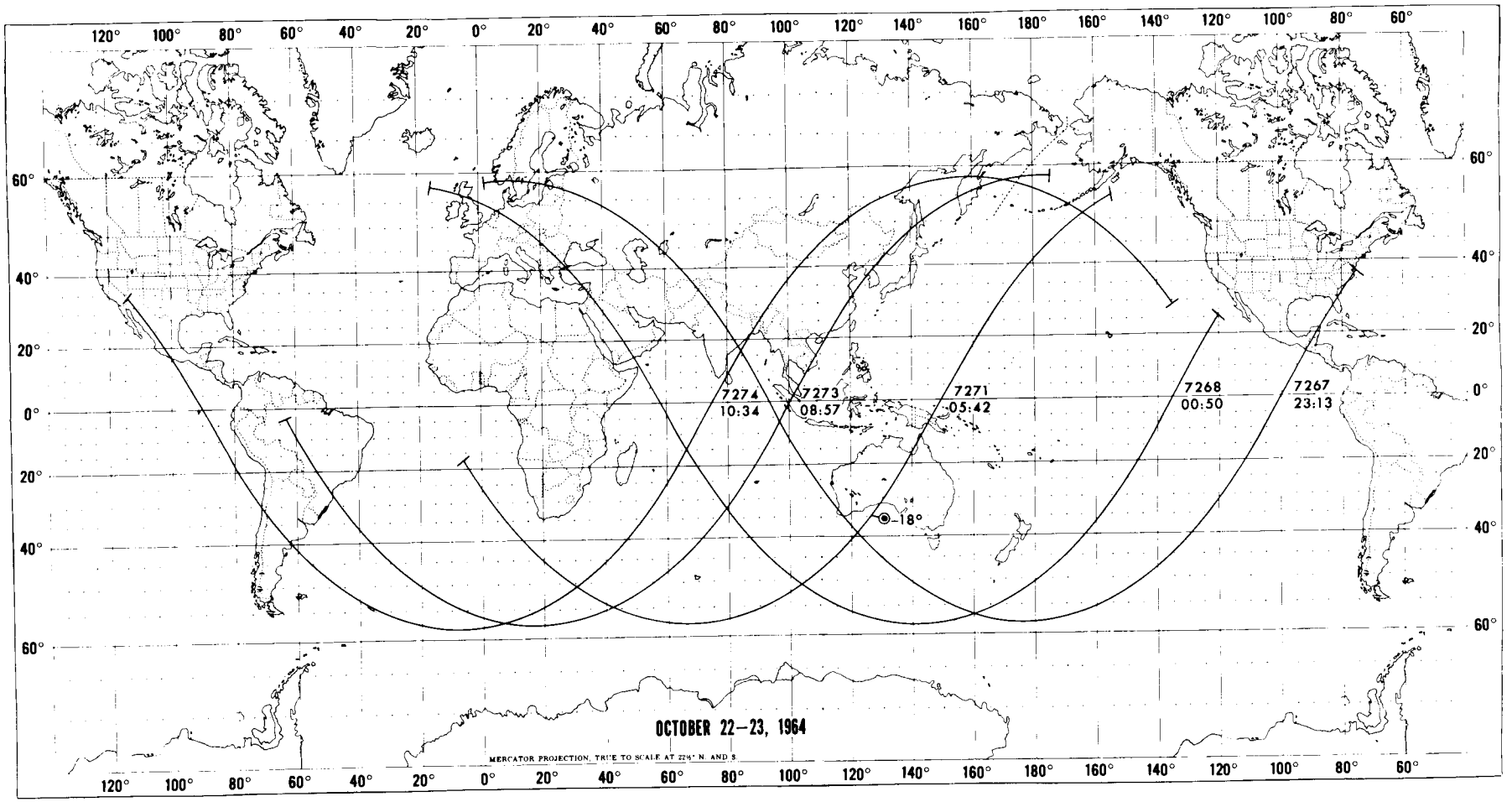
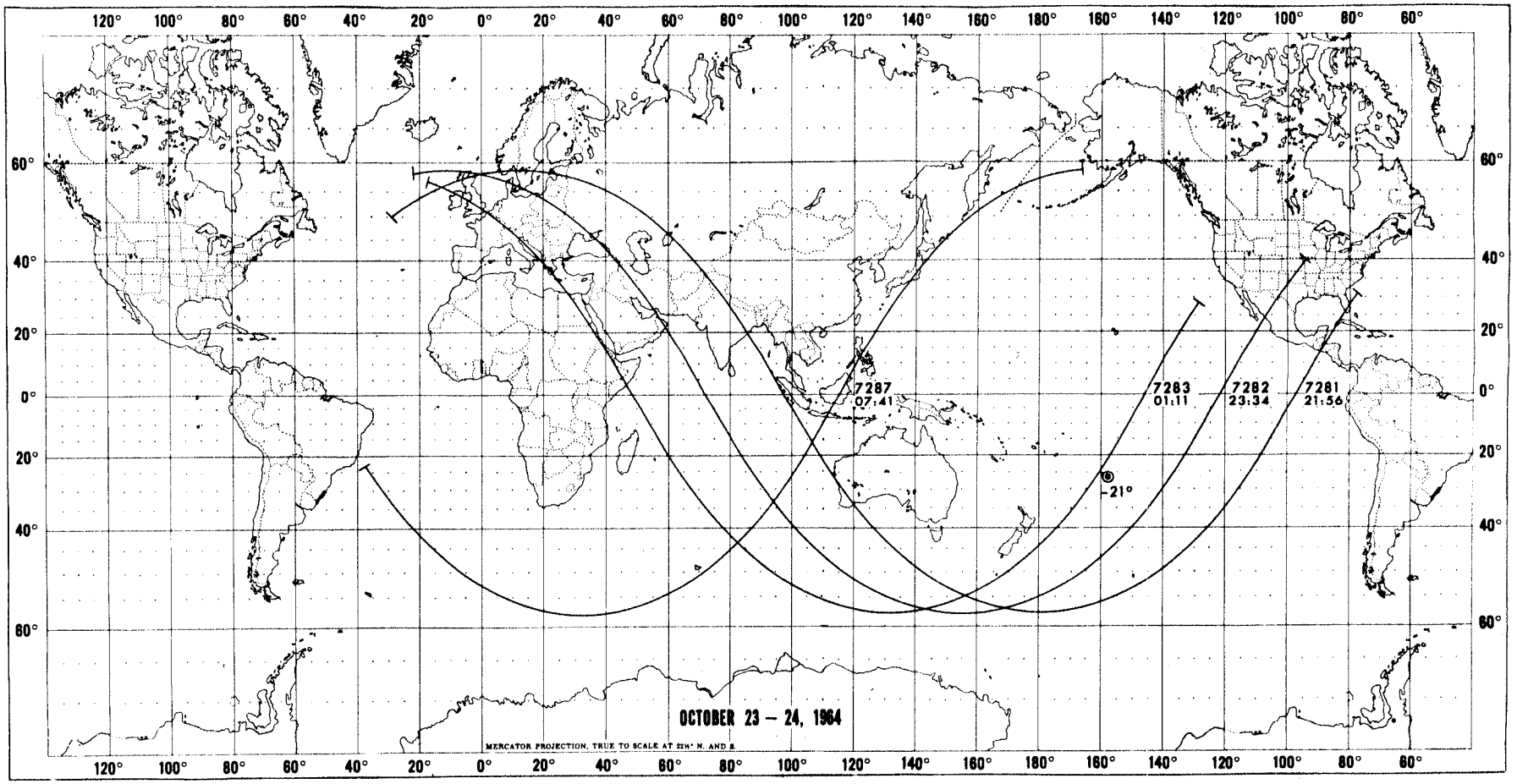
60°
40°
20°
0°
20°
40°
60°
7239
10:13
-15°
OCTOBER 22, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 28½° N. AND S.


7274
10:34
7273
08:57
7271
05:42
7268
00:50
7267
23:13
-18°
OCTOBER 22–23, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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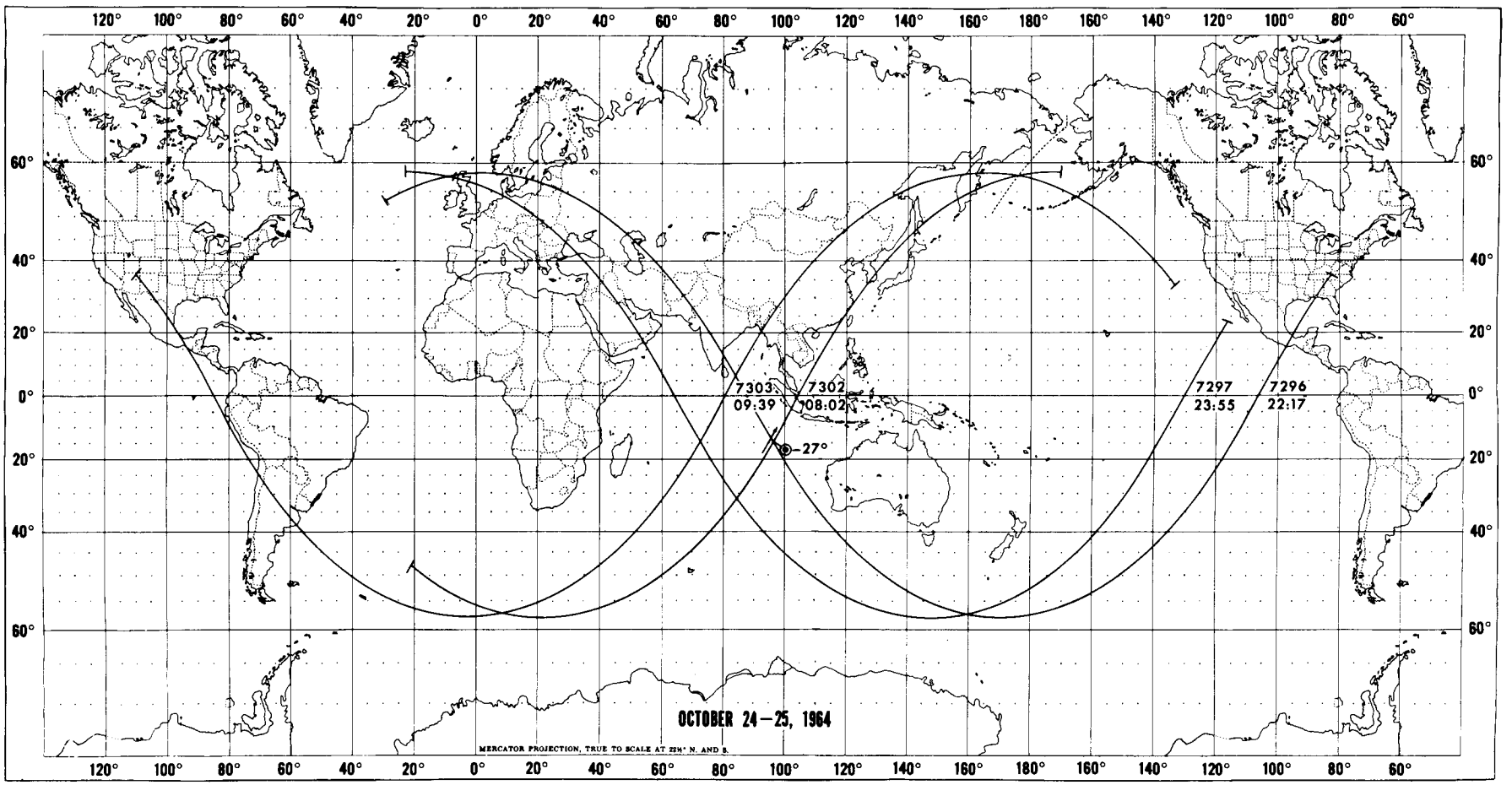
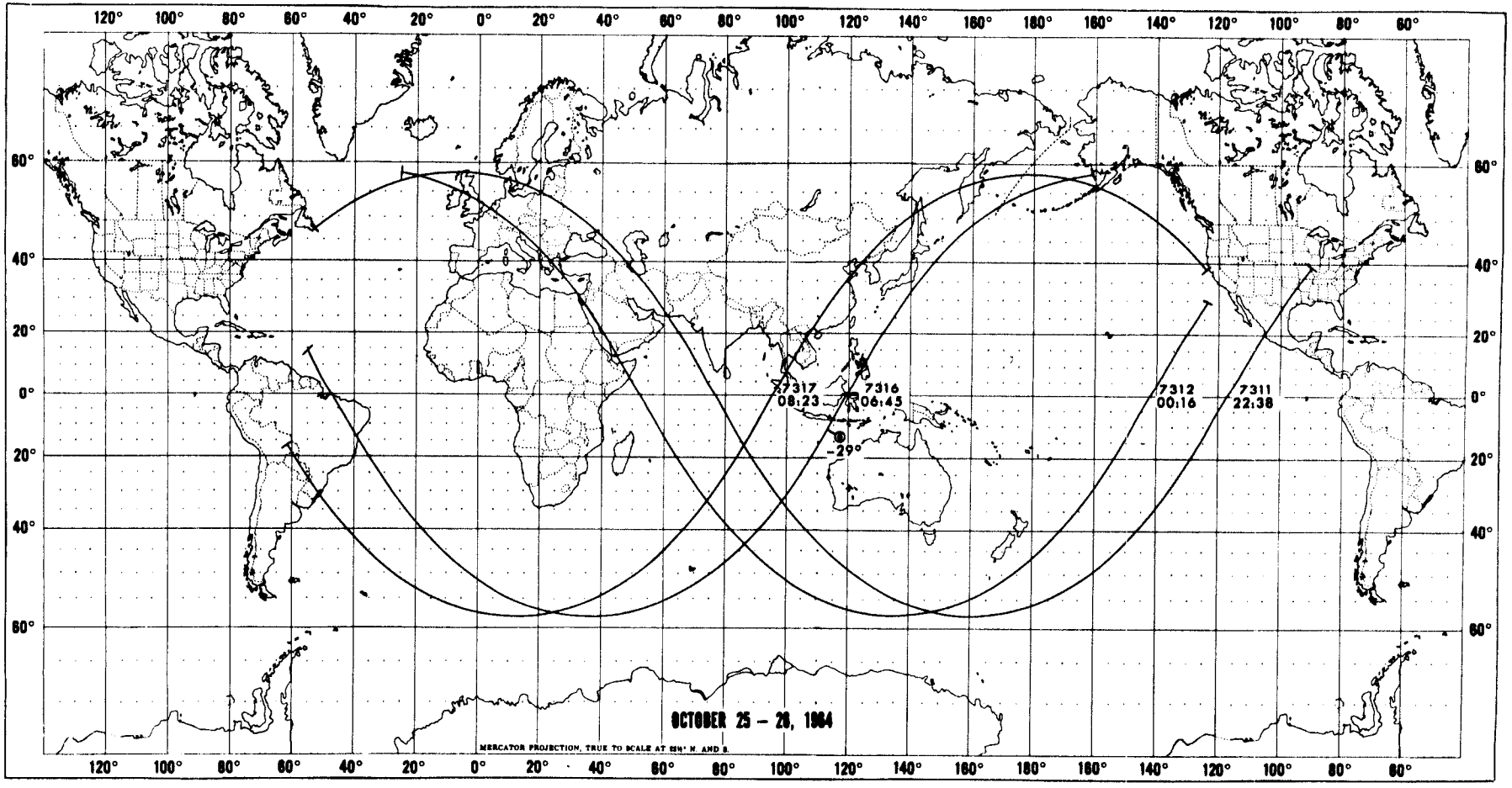
60°
40°
20°
0°
20°
40°
60°
7287
07:41
7283
01:11
7282
23:34
7281
21:56
21°
OCTOBER 23 – 24, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
7303
09:39
7302
08:02
7297
23:55
7296
22:17
27°
OCTOBER 24–25, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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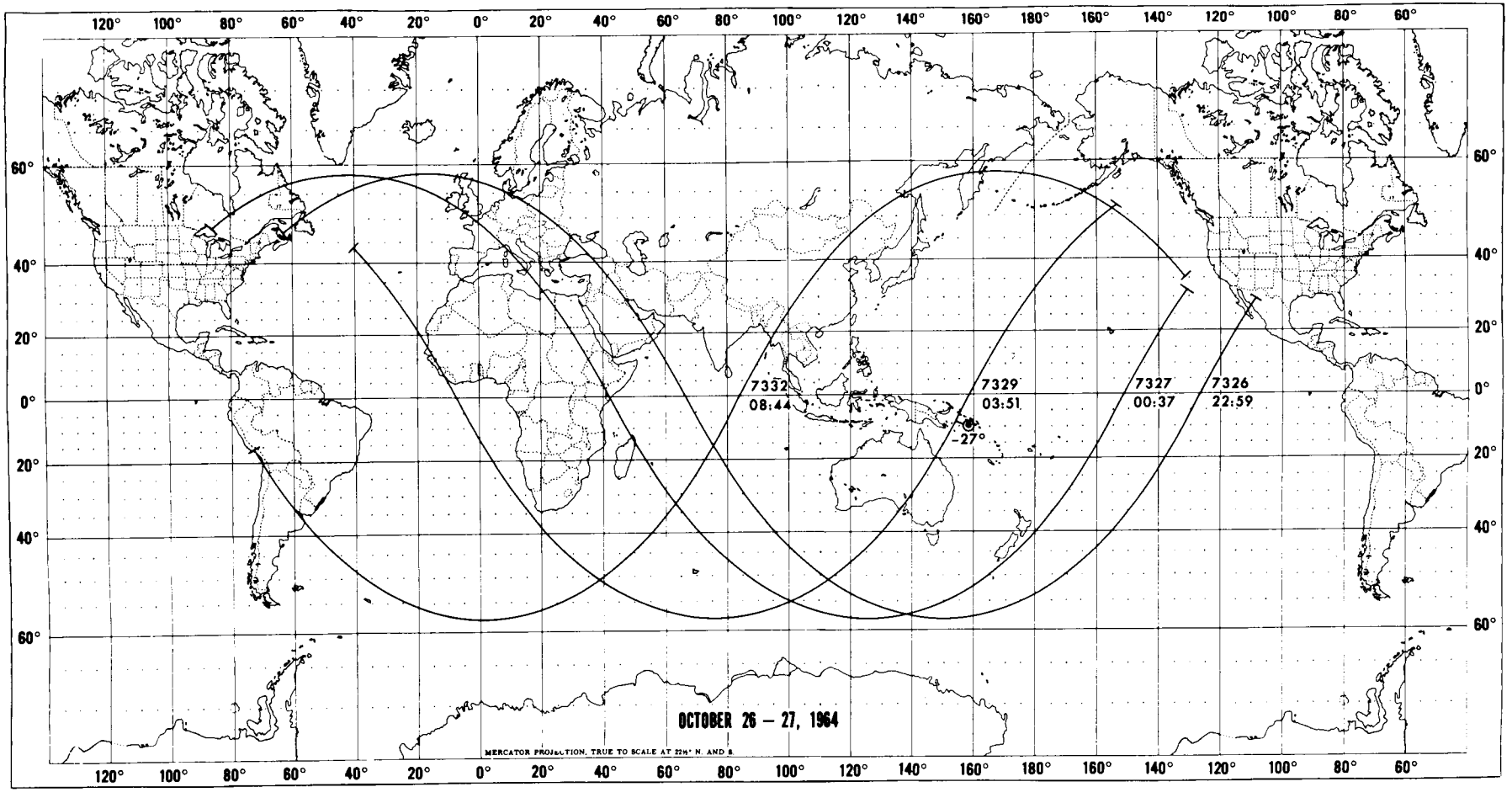
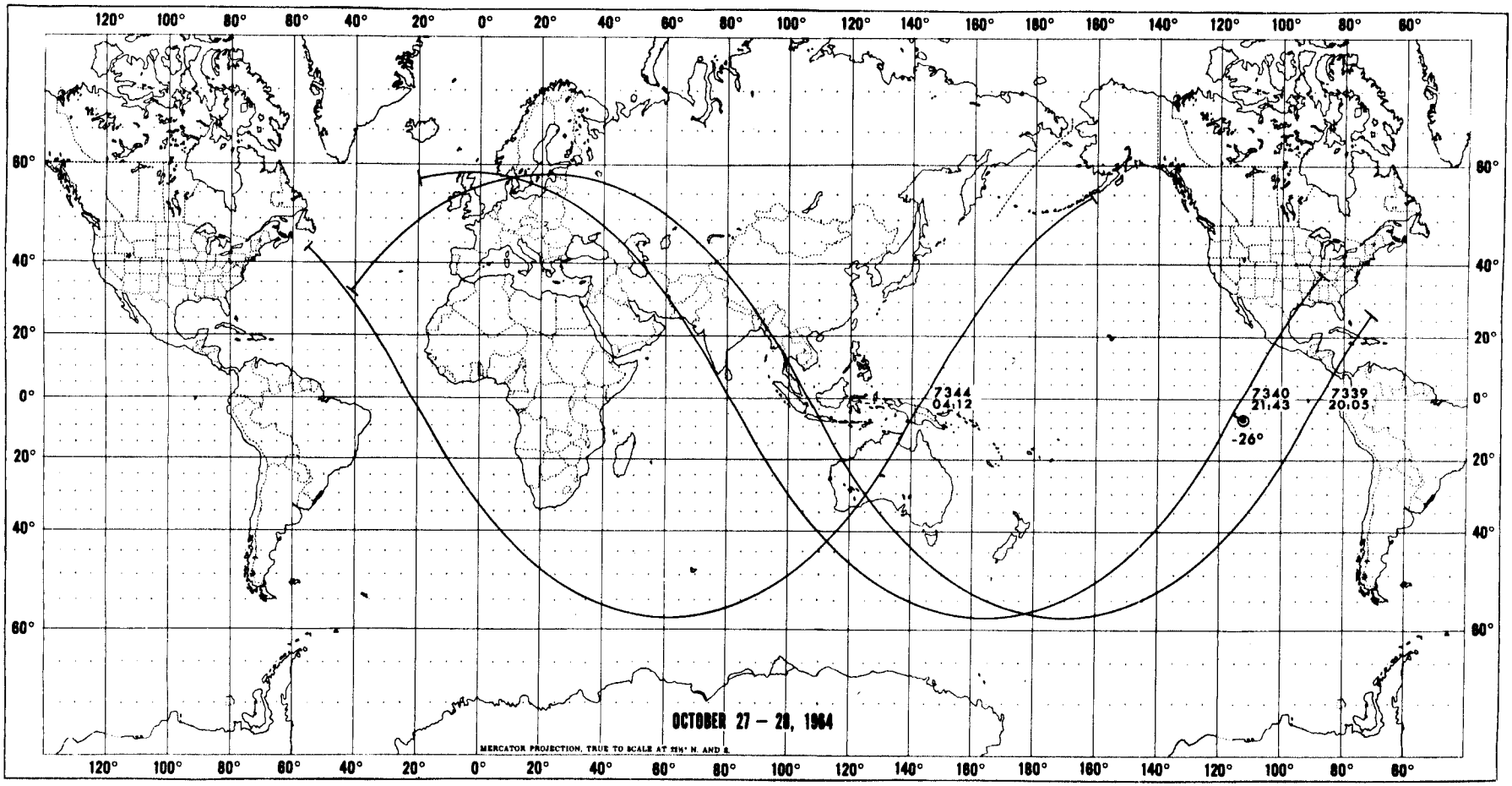
60°
40°
20°
0°
20°
40°
60°
7317
08:23
7316
06:45
7312
00:16
7311
22:38
-29°
OCTOBER 25 – 26, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 69½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
7332
08:44
7329
03:51
-27°
7327
00:37
7326
22:59
OCTOBER 26 – 27, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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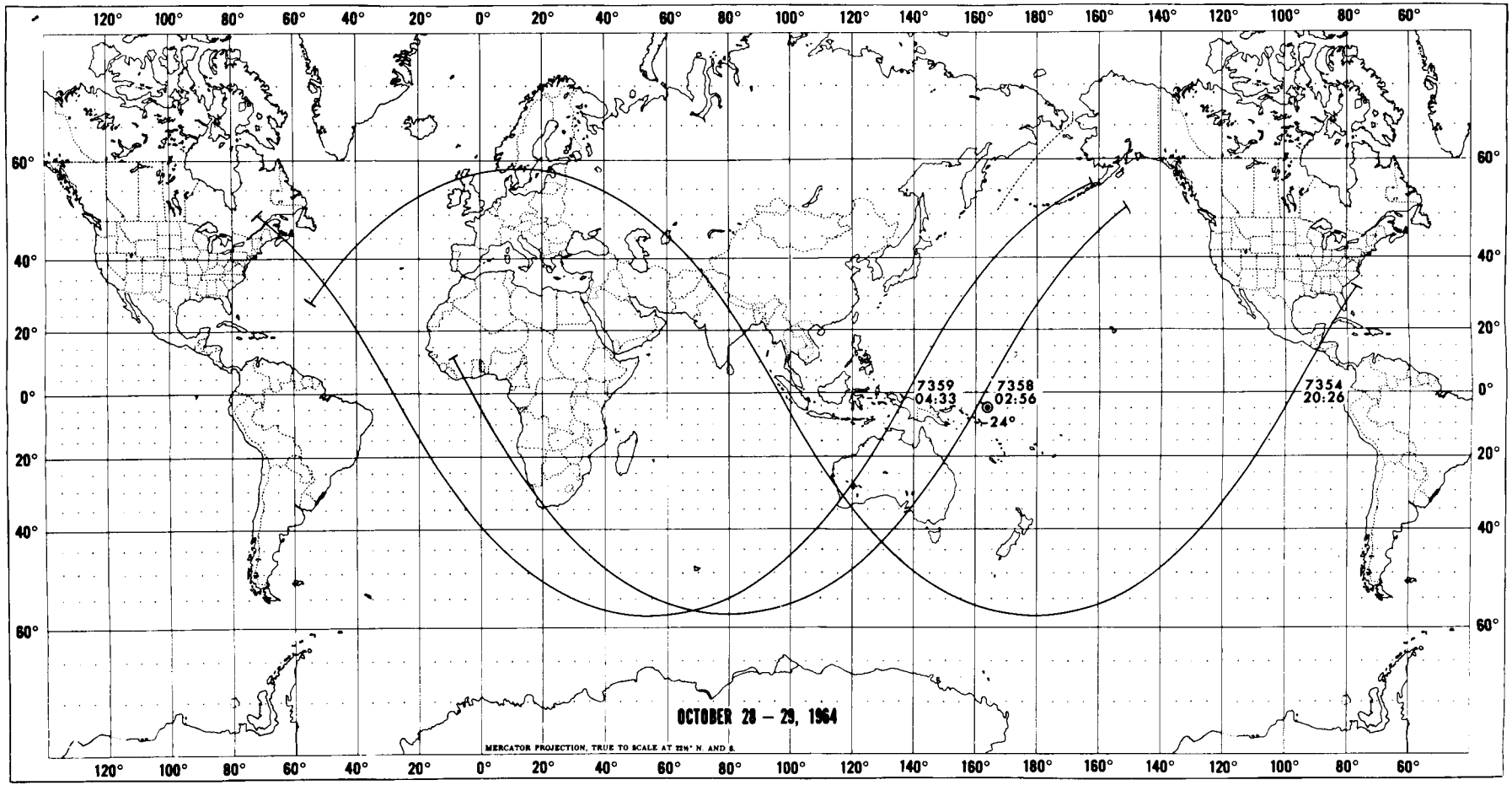
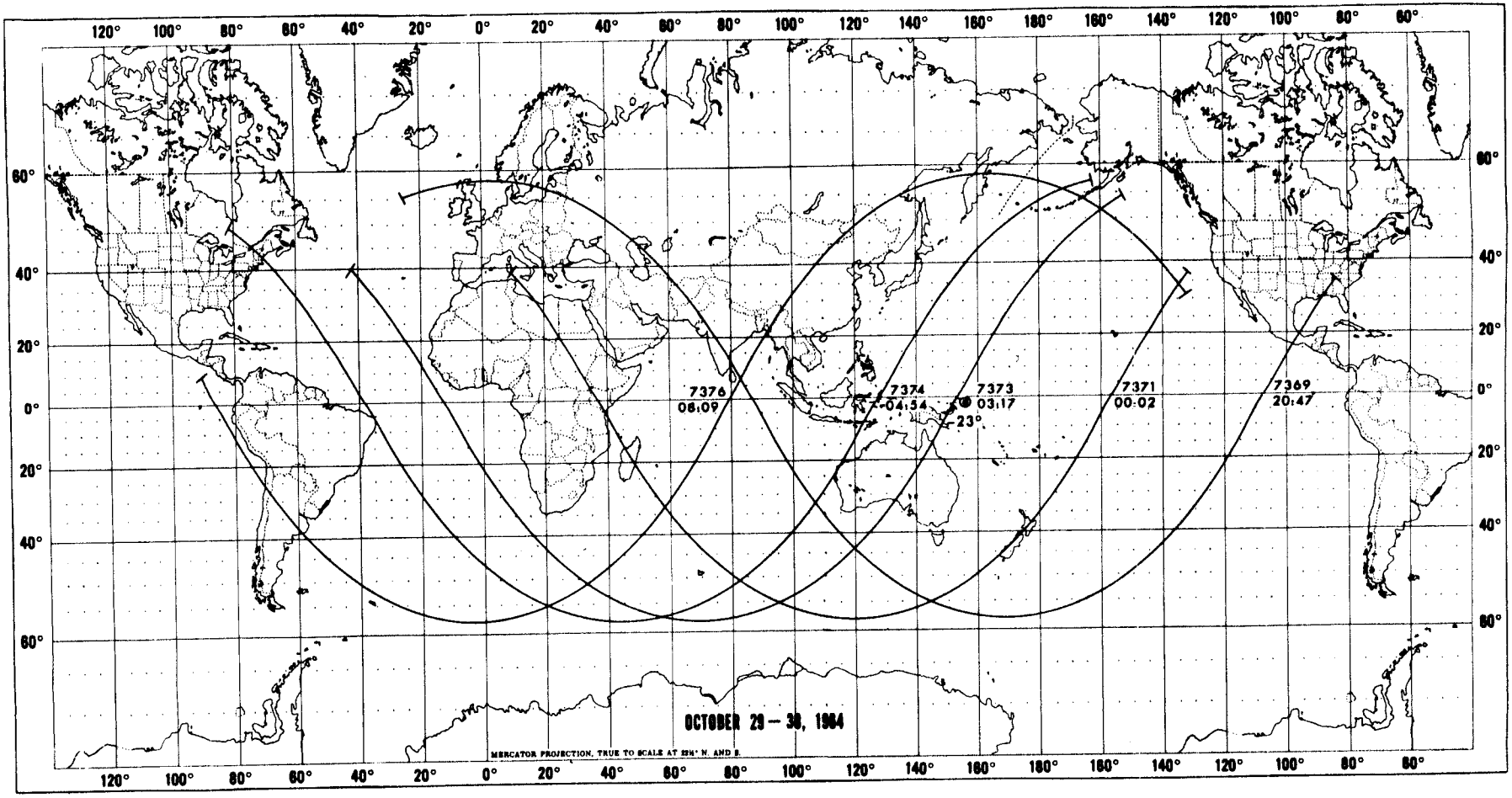
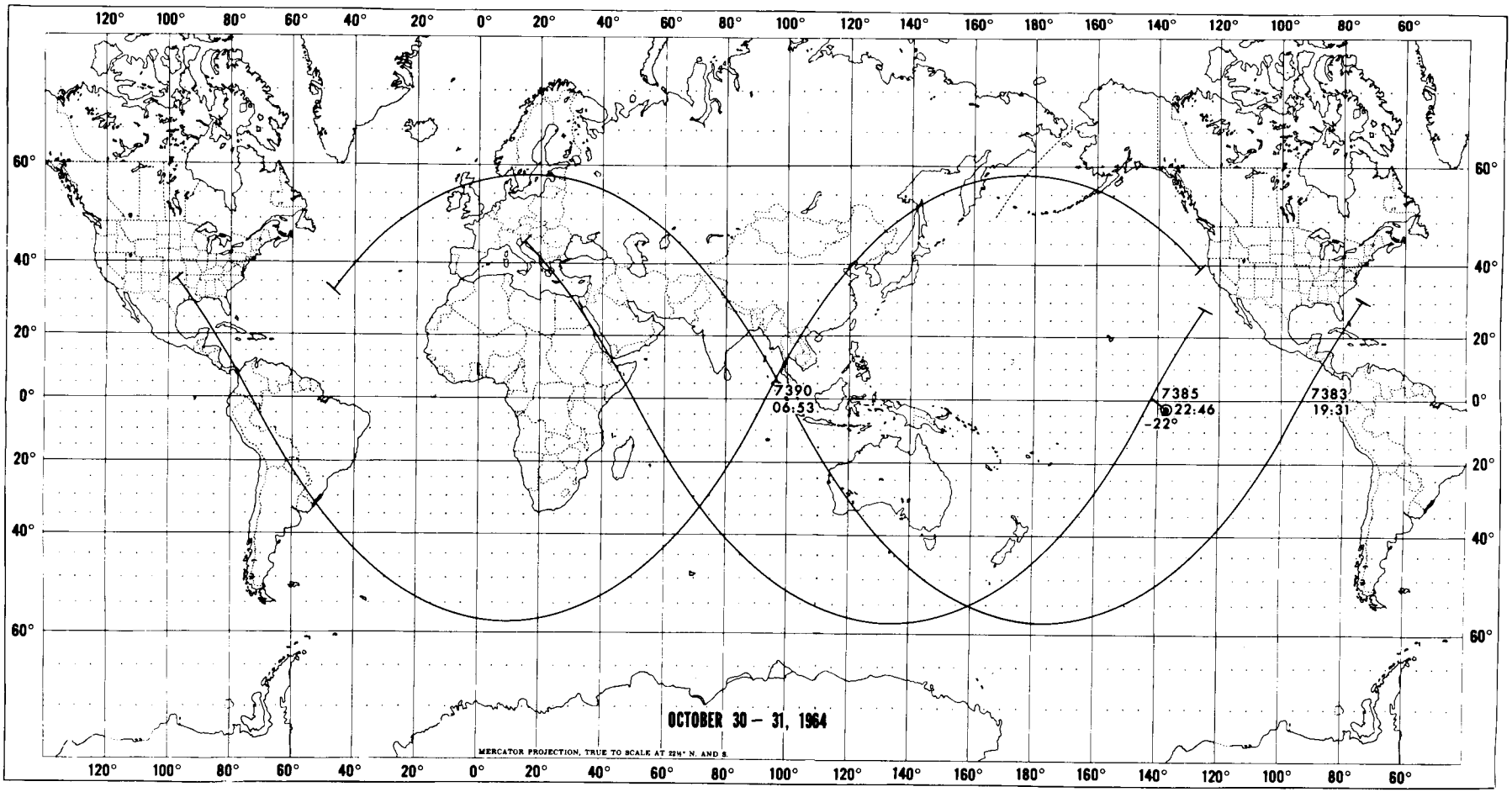
80°
40°
20°
0°
20°
40°
60°
7344
04.12
7340
21.43
-26°
7339
20.05
OCTOBER 27 – 28, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 75° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
7359
04:33
7358
02:56
24°
7354
20:26
OCTOBER 28 – 29, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.


7376
08:09
7374
04:54
7373
03:17
23°
7371
00:02
7369
20:47
OCTOBER 29 – 30, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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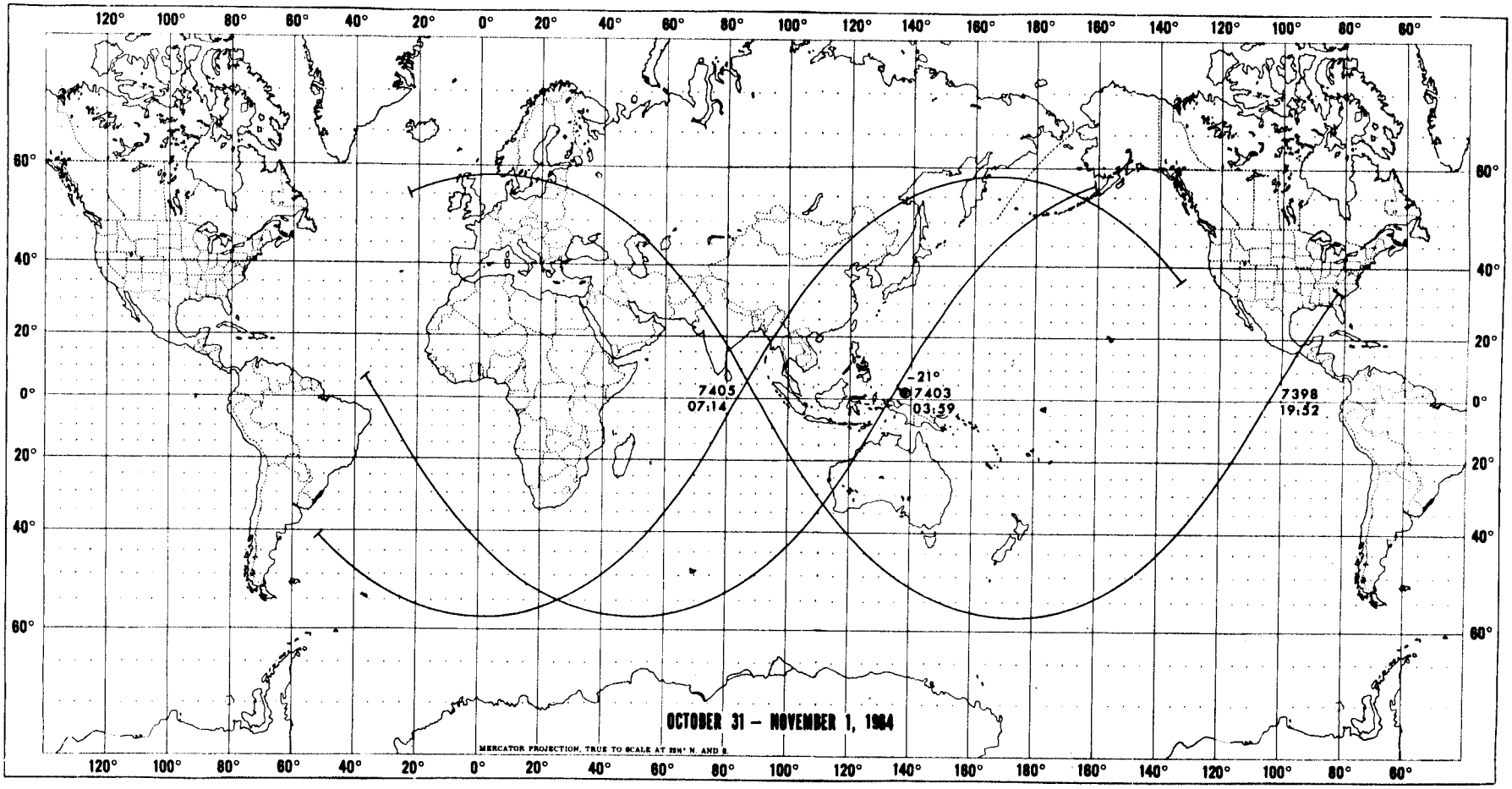
60°
40°
20°
0°
20°
40°
60°
7390
06:53
7385
22:46
-22°
7383
19:31
OCTOBER 30 – 31, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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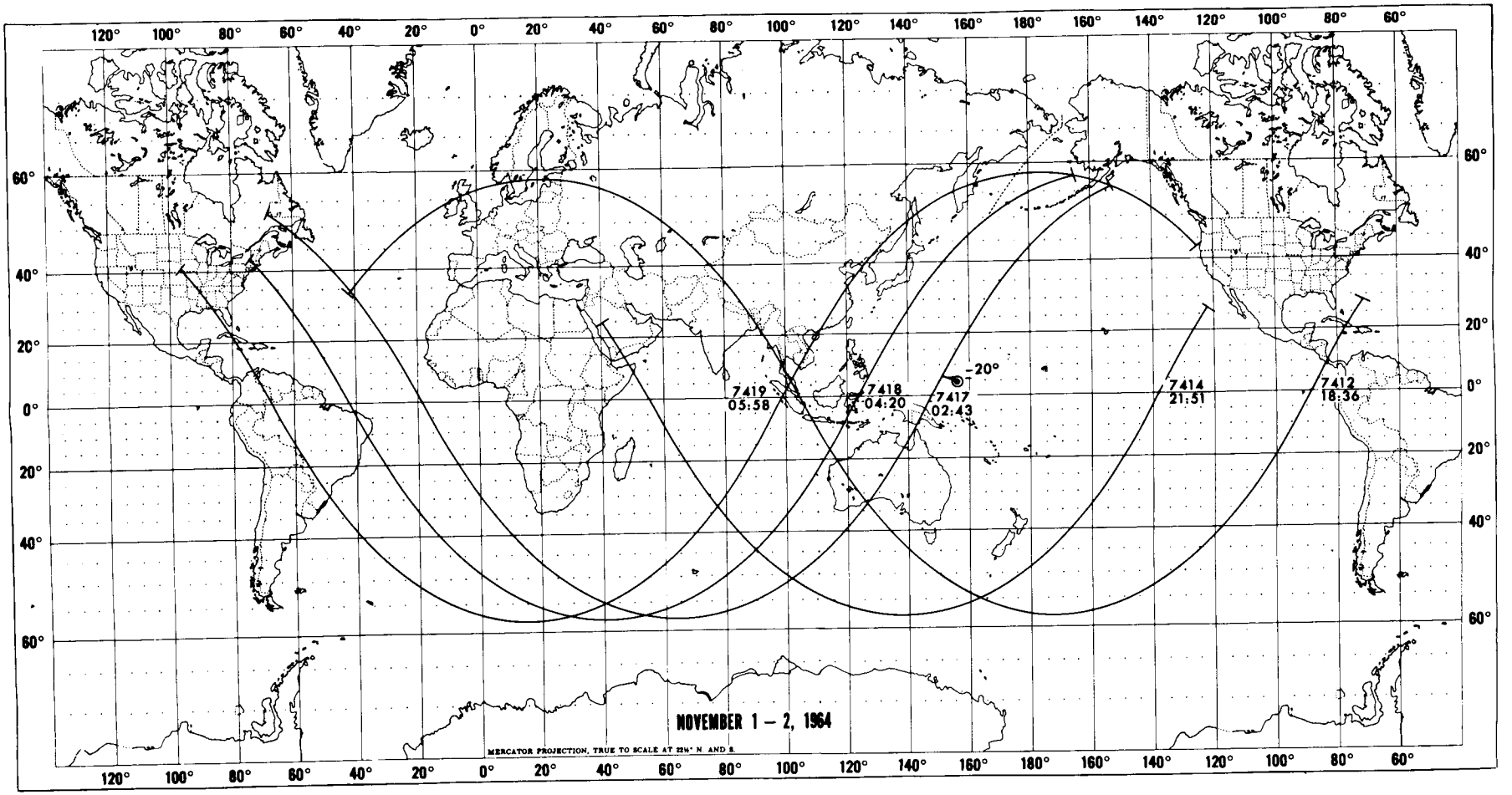
60°
40°
20°
0°
20°
40°
60°
7405
07:14
-21°
7403
03:59
7398
19:52
OCTOBER 31 – NOVEMBER 1, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 28½° N. AND S.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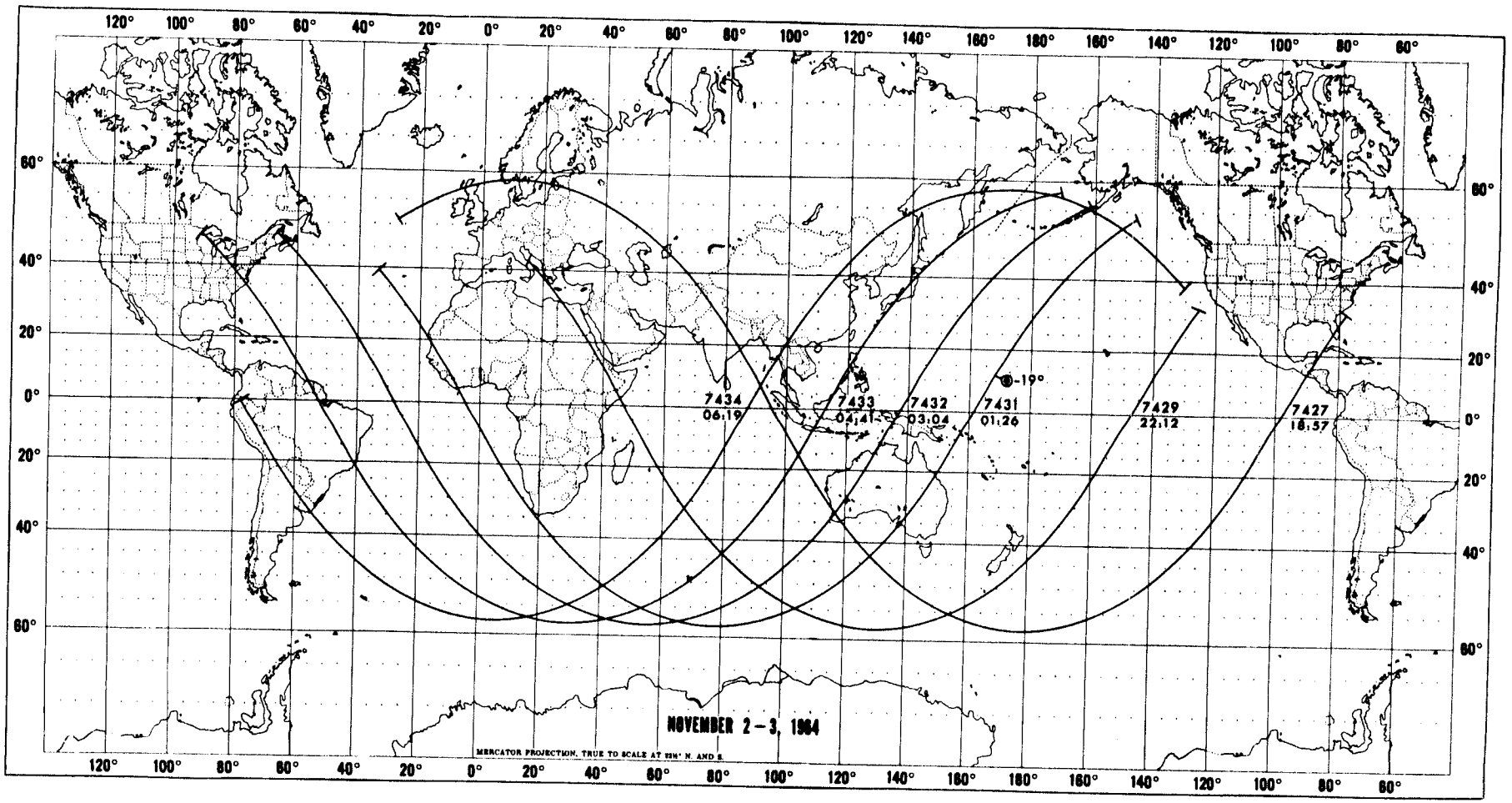
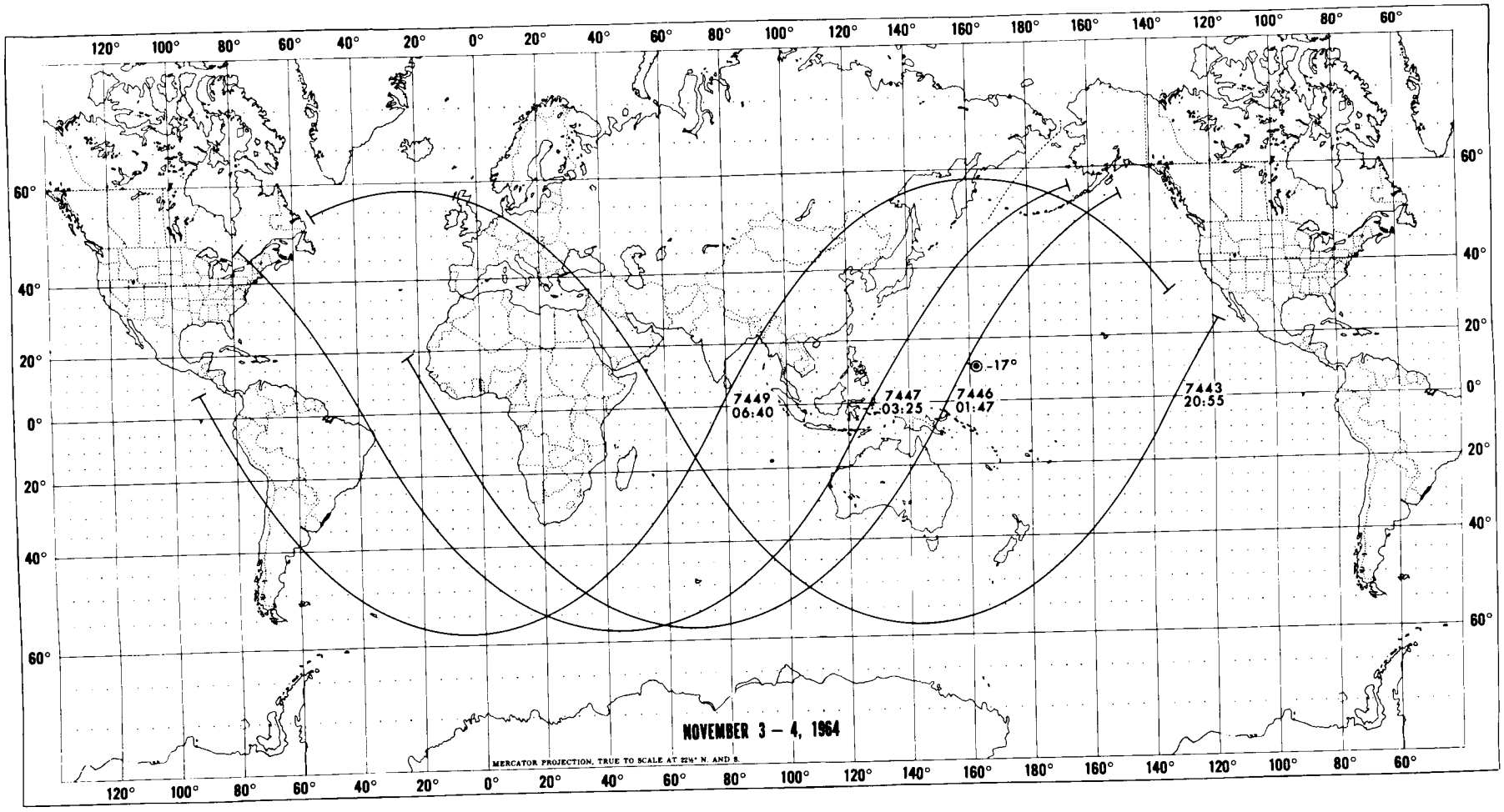
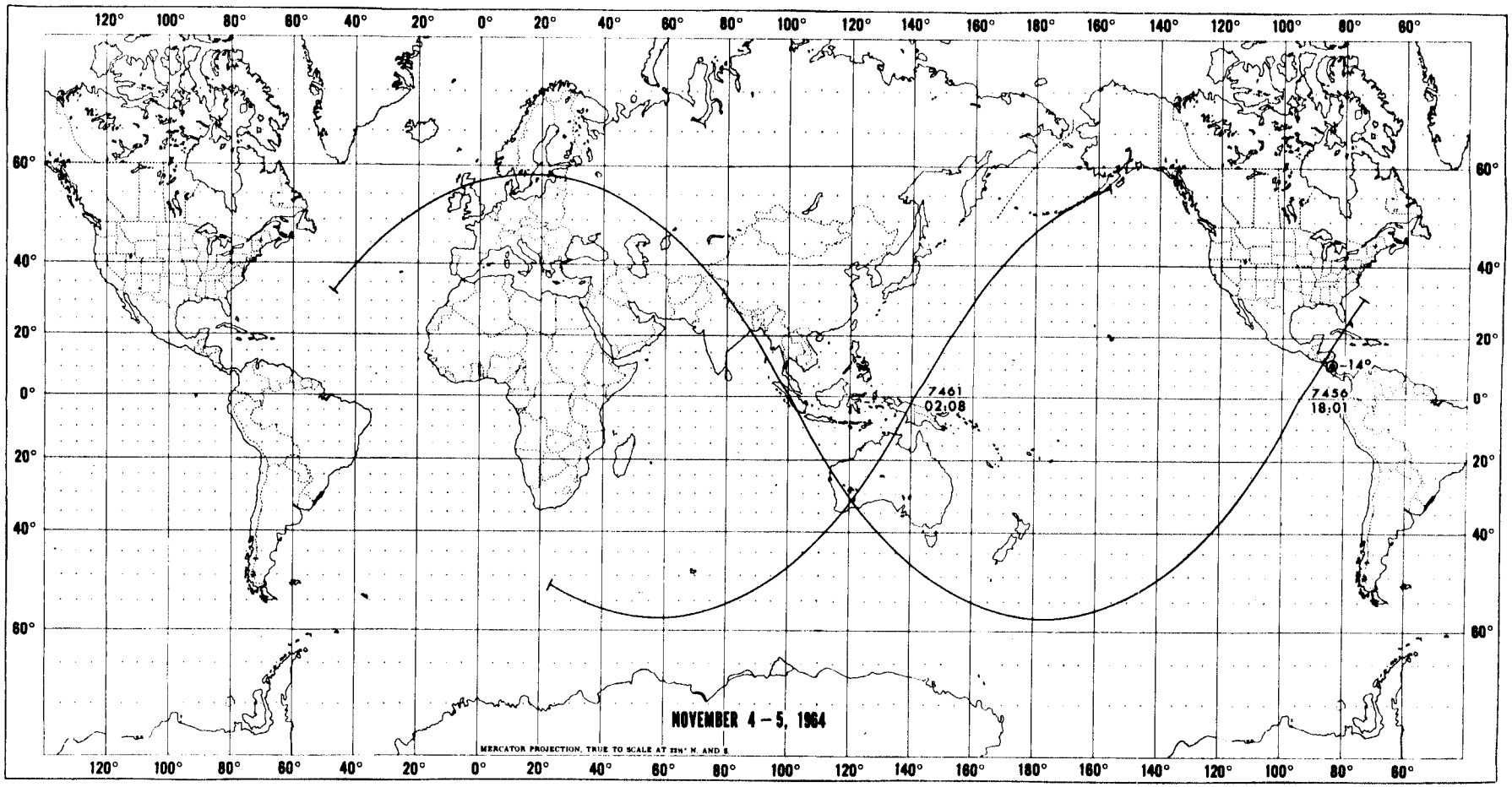
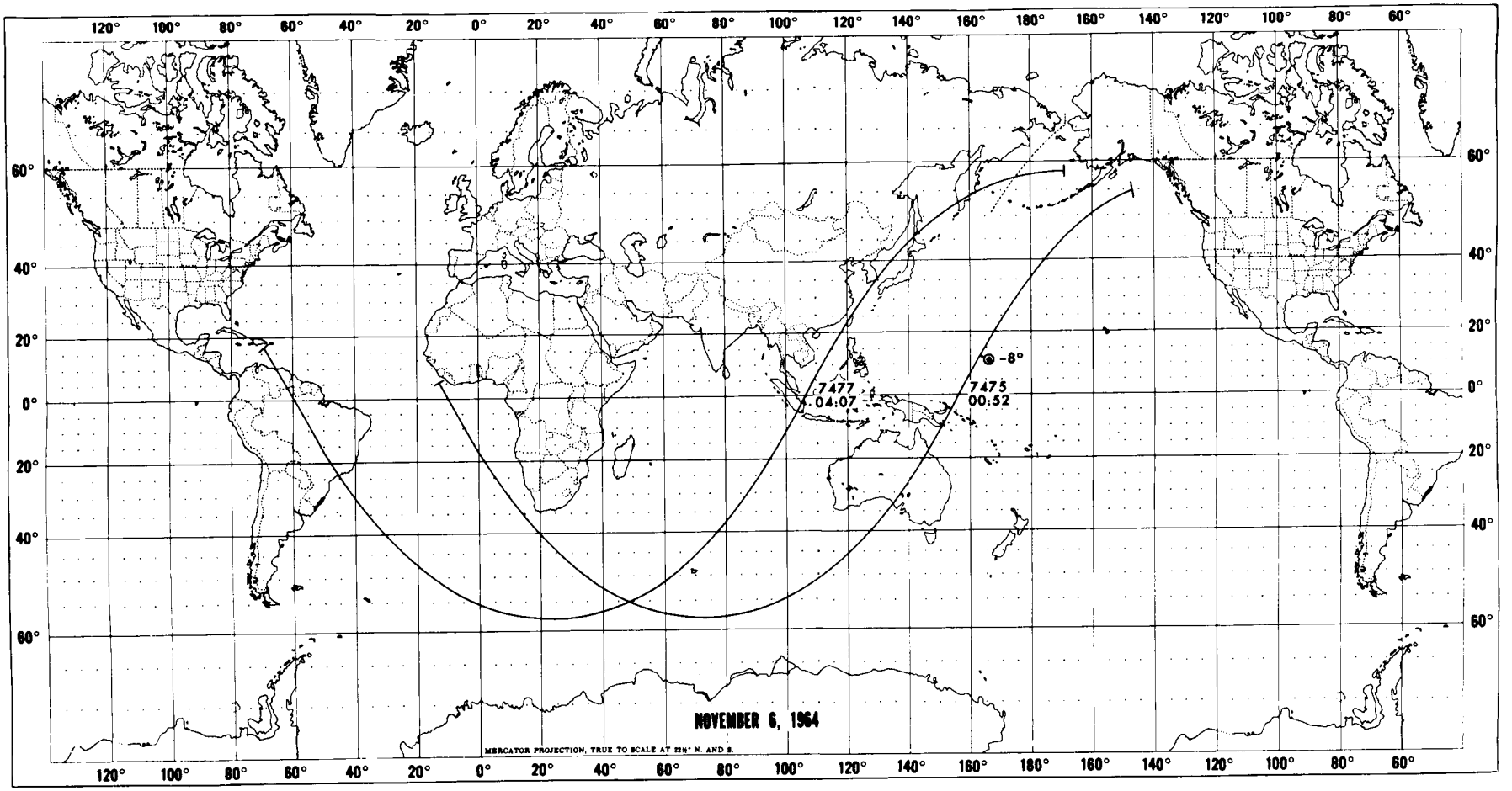
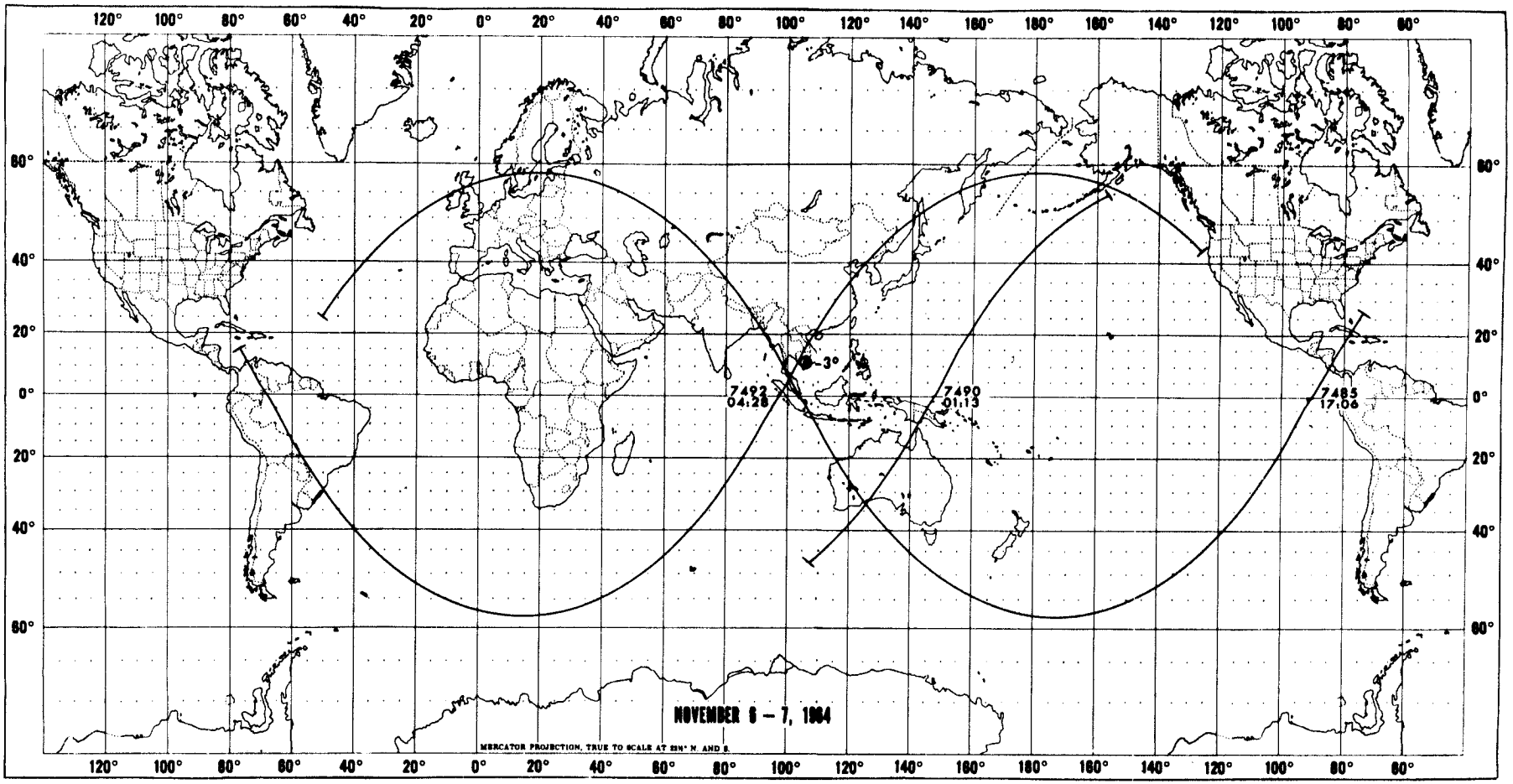
60°
40°
20°
0°
20°
40°
60°
7419
05:58
7418
04:20
7417
02:43
-20°
7414
21:51
7412
18:36
NOVEMBER 1 – 2, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 23½° N AND S.

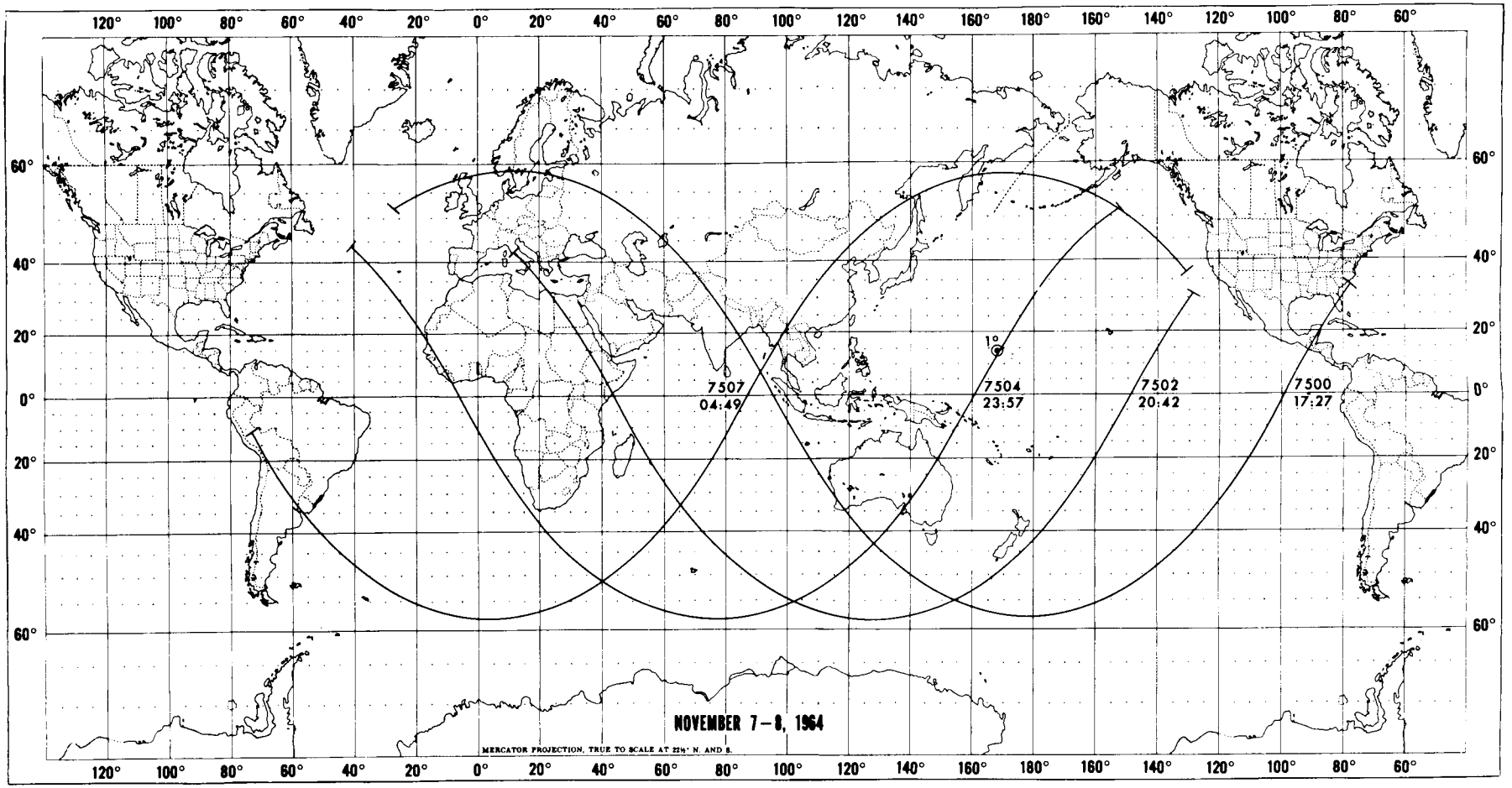

7434
06:19
7433
04:41
7432
03:04
7431
01:26
-19°
7429
22:12
7427
18:57
NOVEMBER 2 – 3, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

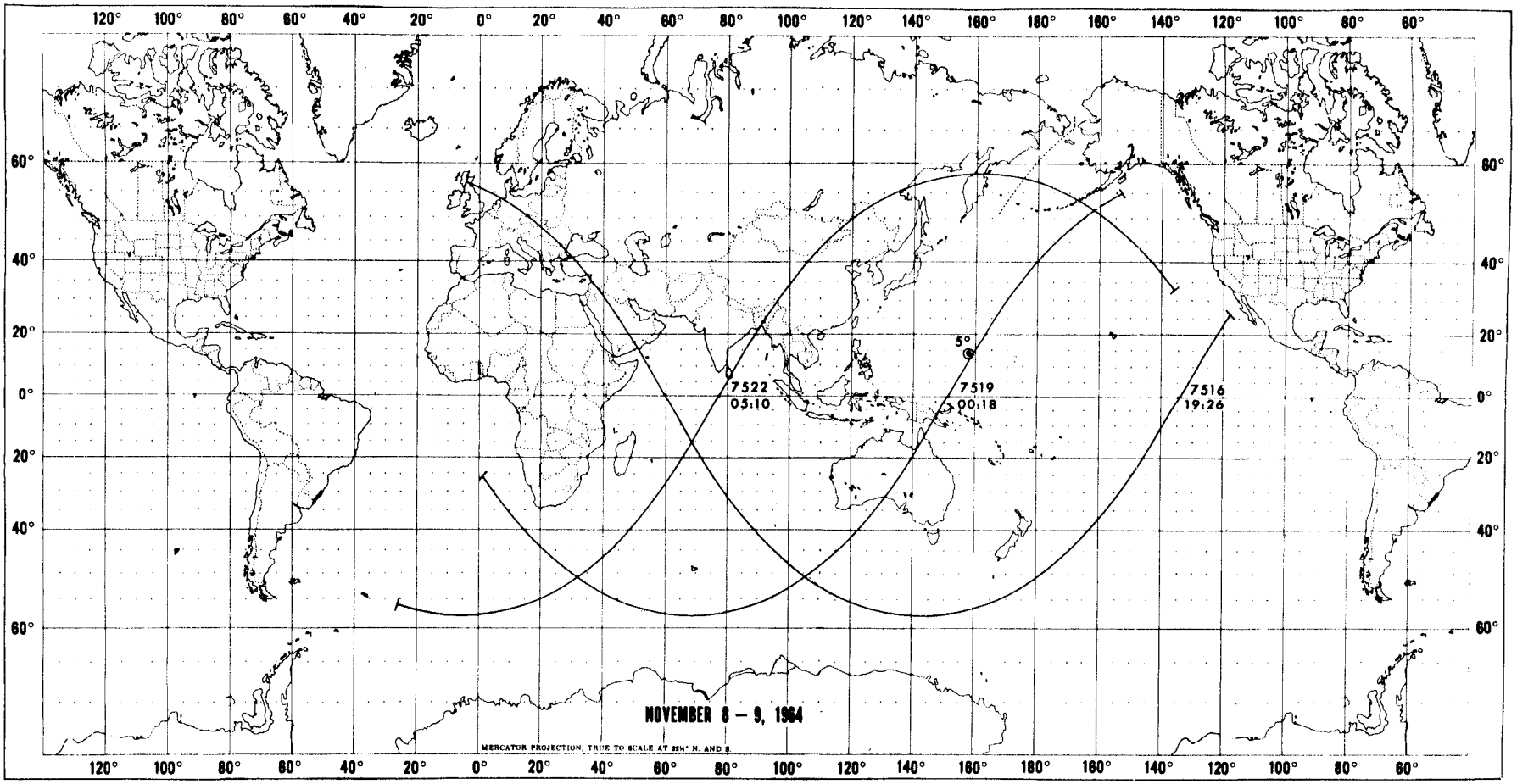

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
-17°
7449
06:40
7447
03:25
7446
01:47
7443
20:55
NOVEMBER 3 – 4, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

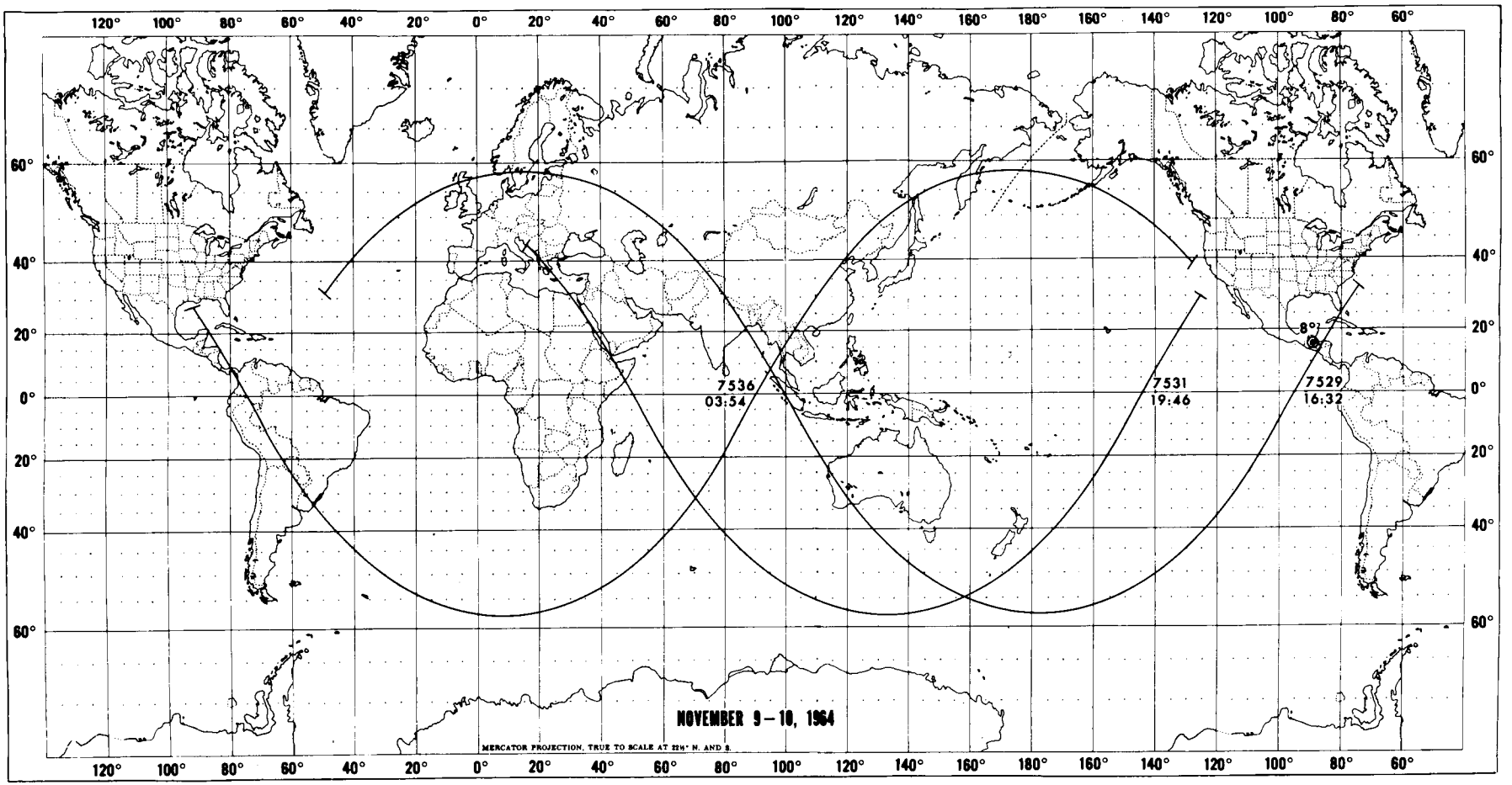

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
7461
02:08
7460
18:01
-14°
NOVEMBER 4 – 5, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 33½° N. AND S.

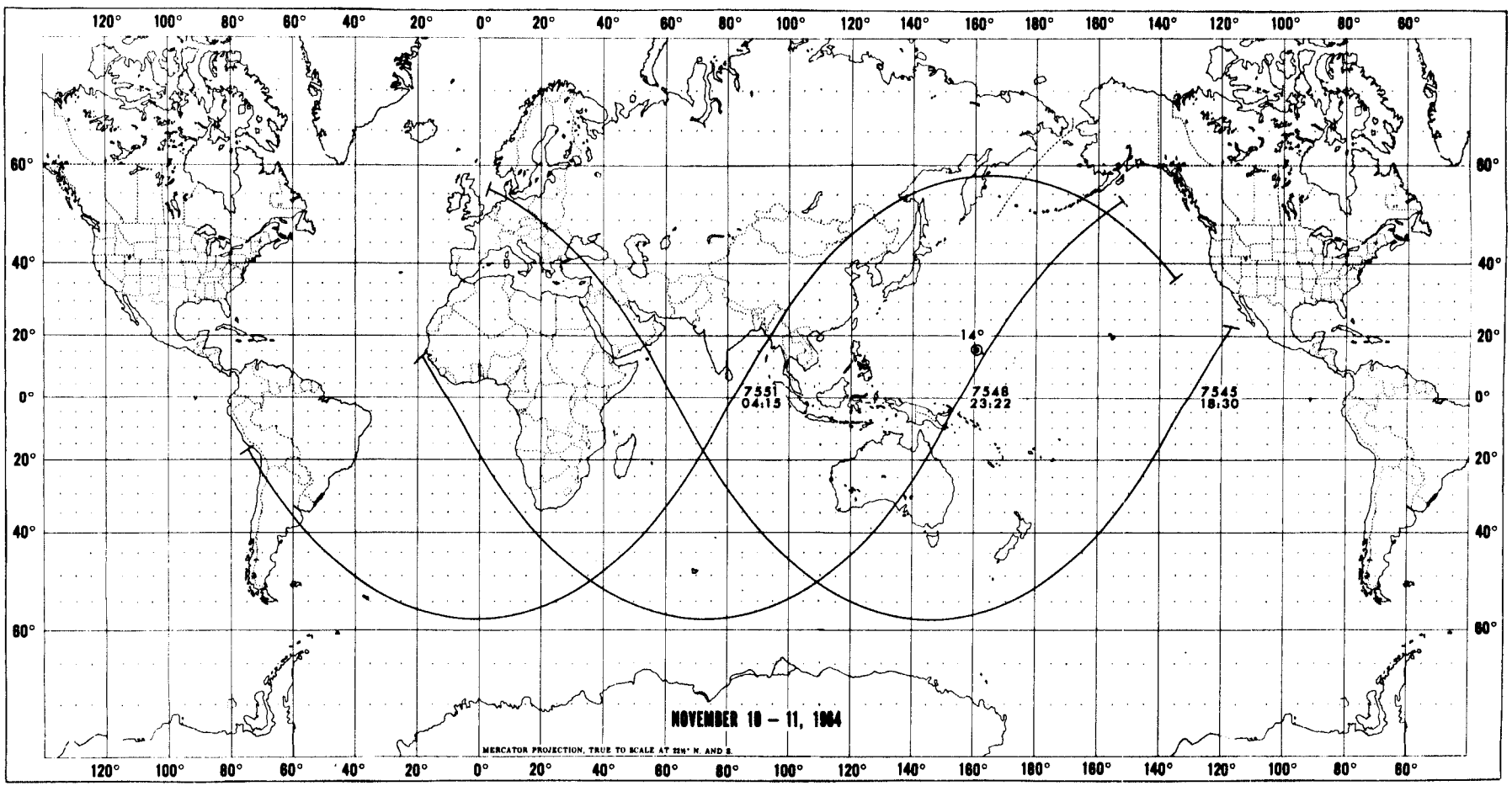

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
-8°
7477
04:07
7475
00:52
NOVEMBER 6, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

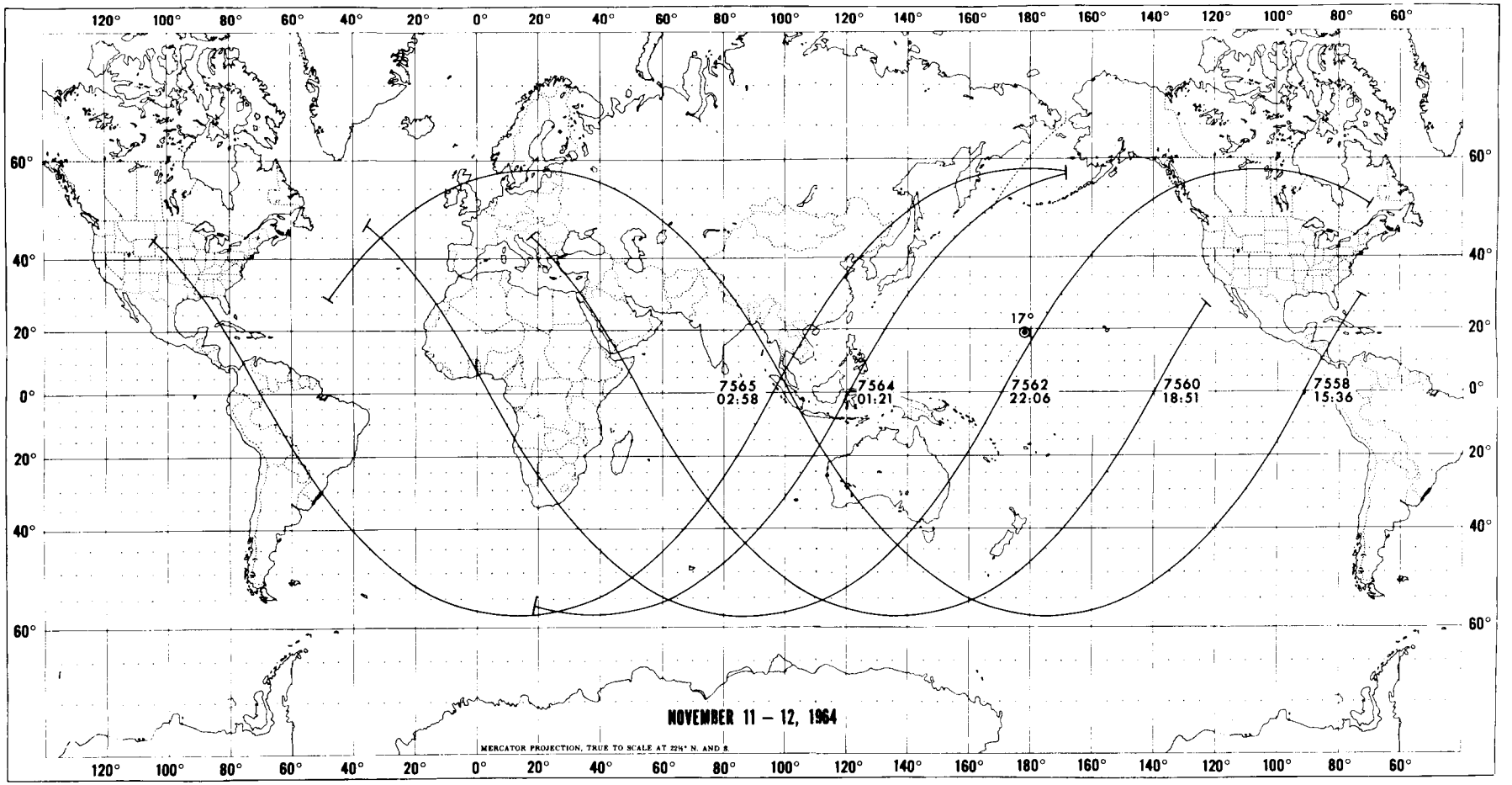

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
80°
40°
20°
0°
20°
40°
60°
7493
04.28
3°
4
7490
01.13
7485
17.06
NOVEMBER 6 – 7, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 28½° N. AND S.

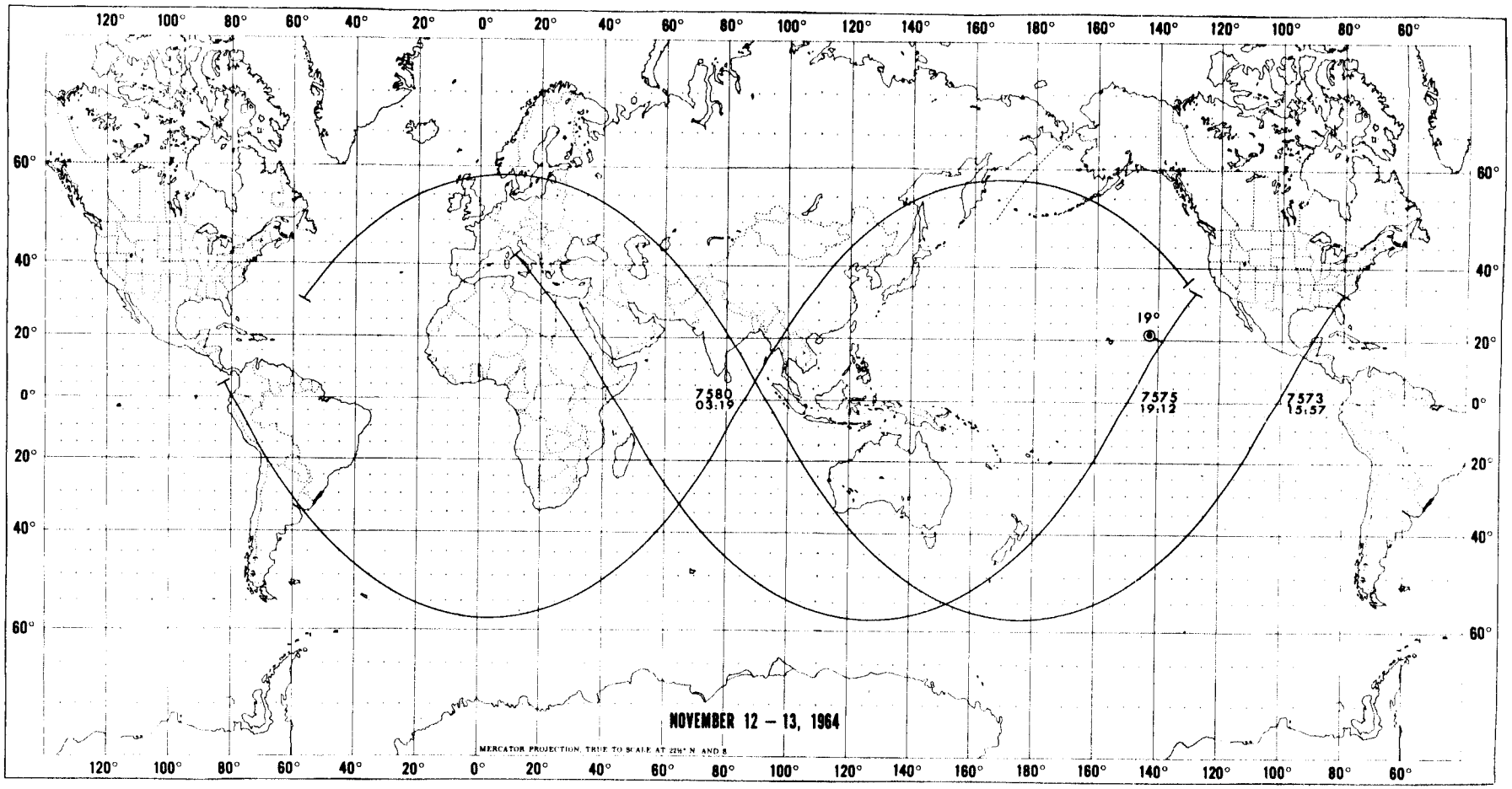

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
7507
04:49
7504
23:57
7502
20:42
7500
17:27
1°
NOVEMBER 7–8, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

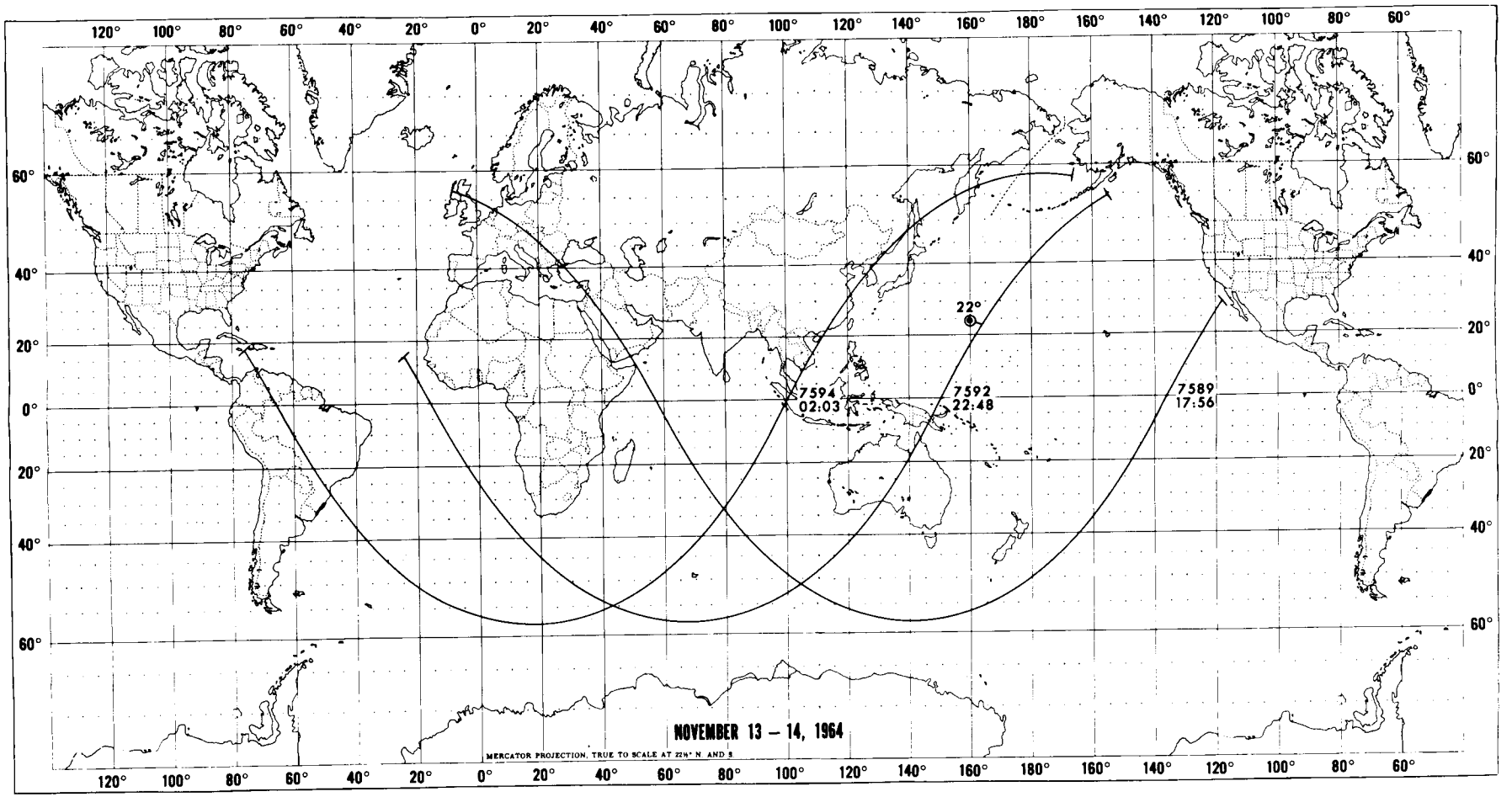

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
5°
7522
05:10
7519
00:18
7516
19:26
NOVEMBER 8 – 9, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 28½° N. AND S.

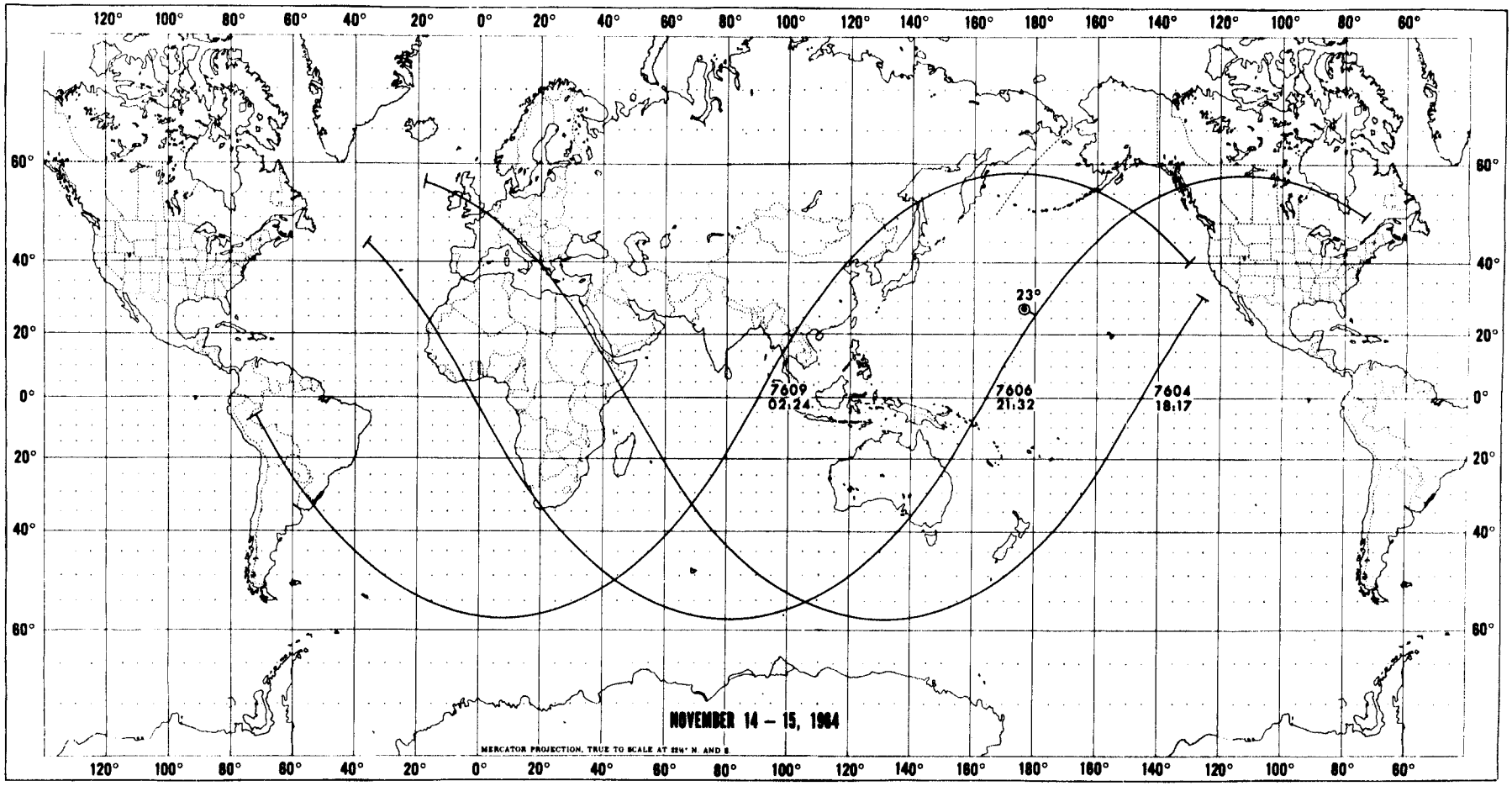

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
7536
03:54
7531
19:46
7529
16:32
8°
NOVEMBER 9 – 10, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

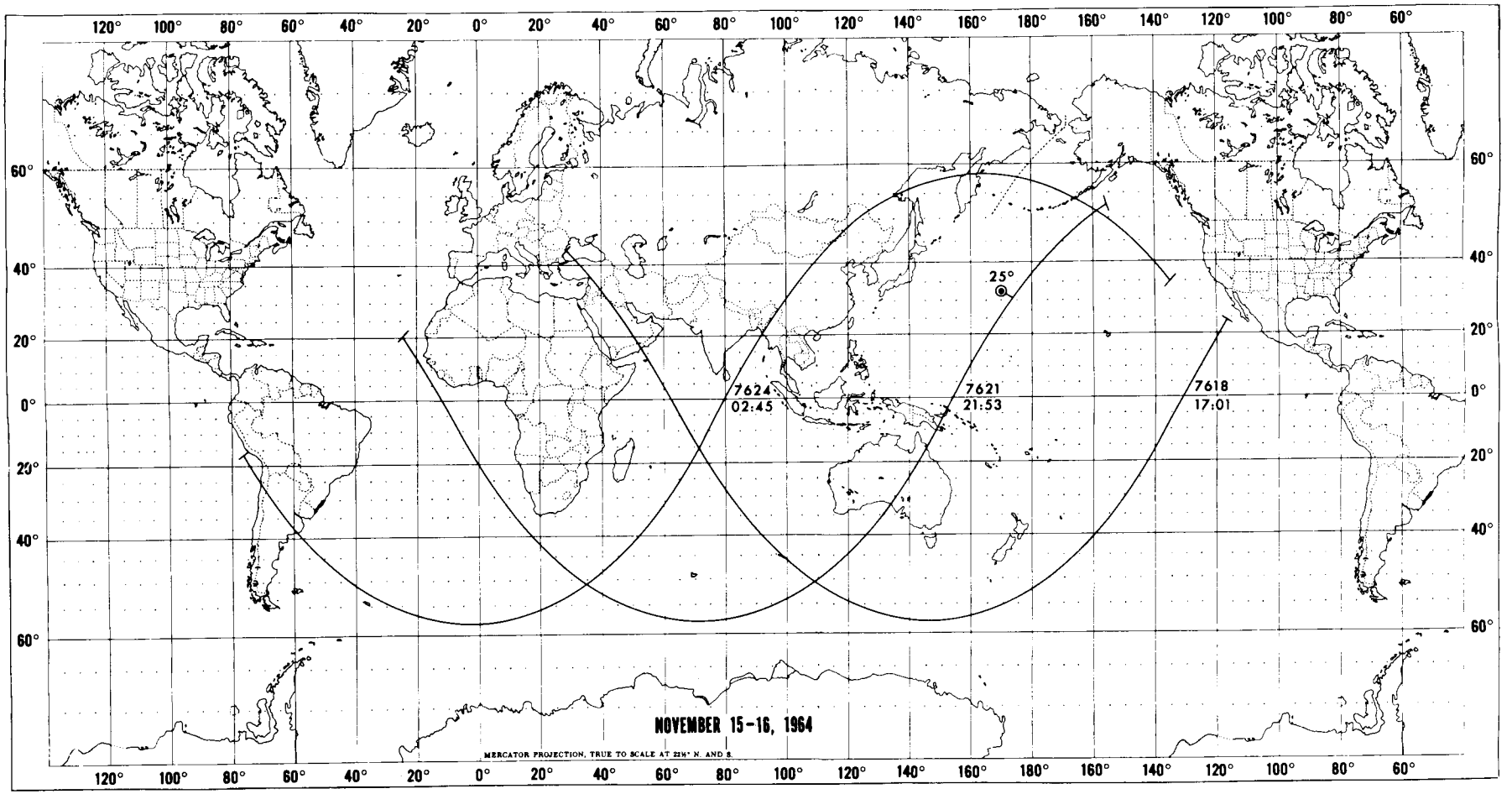

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
14°
7551
04:15
7548
23:22
7545
18:30
NOVEMBER 10 – 11, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

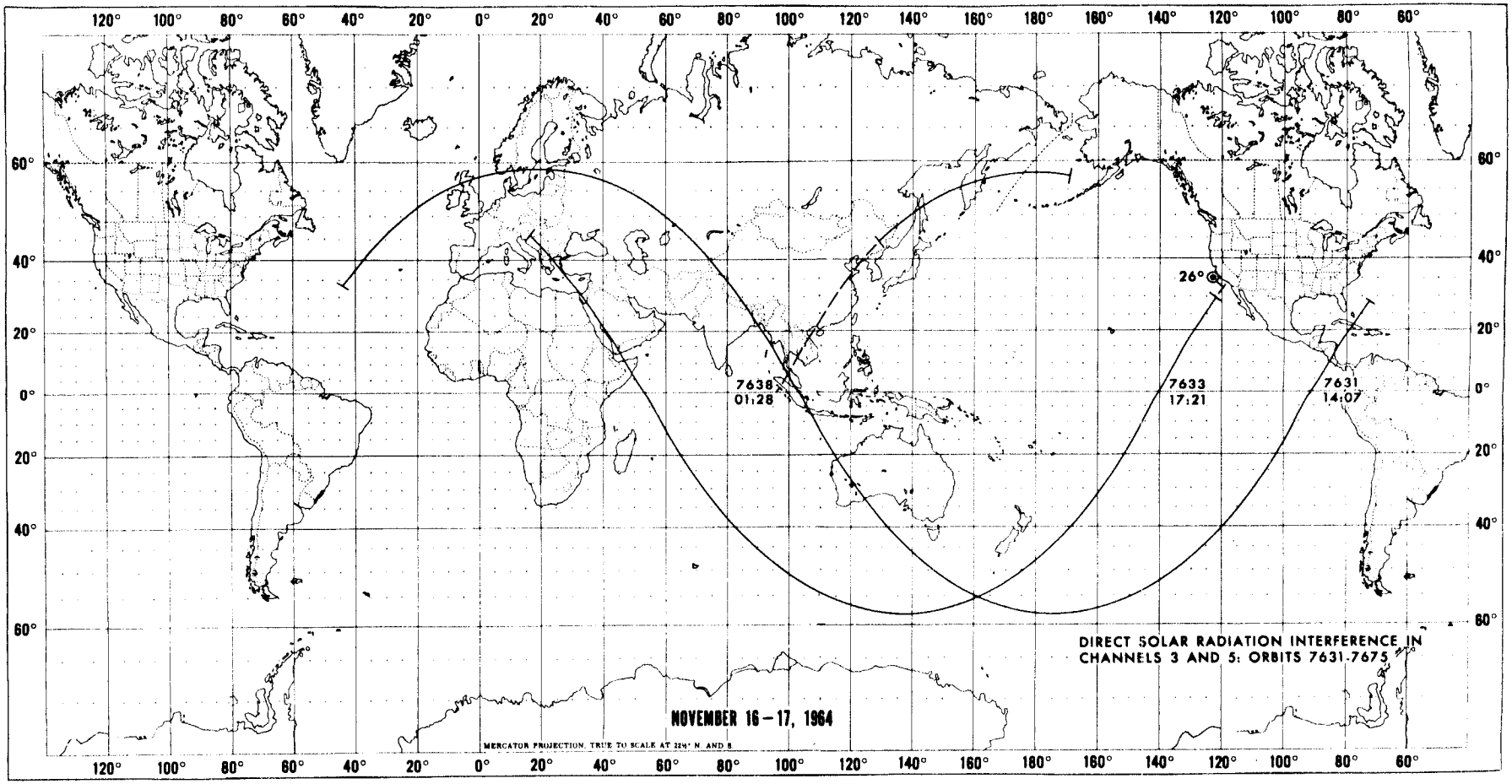

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
17°
7565
02:58
7564
01:21
7562
22:06
7560
18:51
7558
15:36
NOVEMBER 11 – 12, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

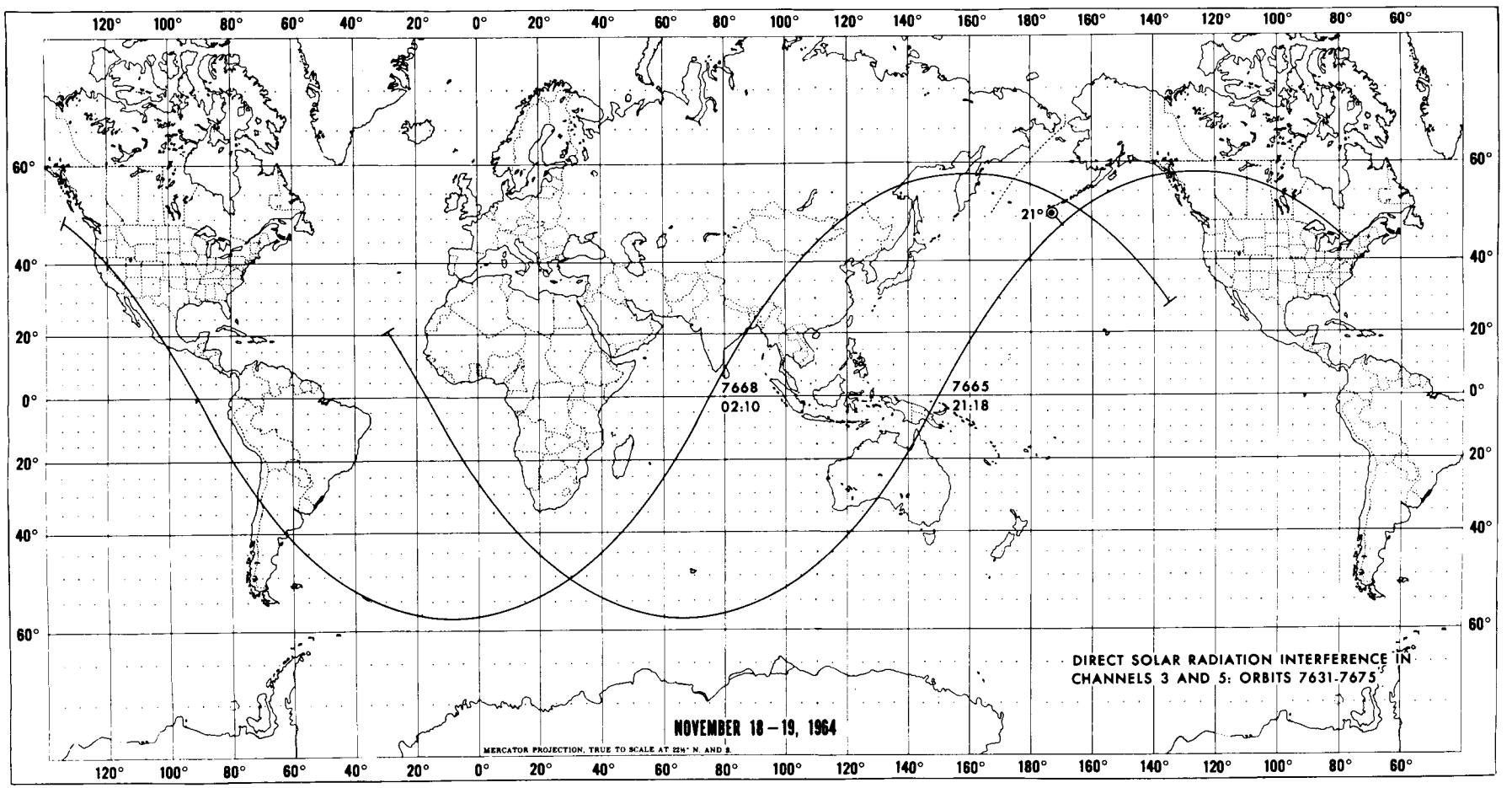

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
19°
7580
03:19
7575
19:12
7573
15:57
NOVEMBER 12 – 13, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

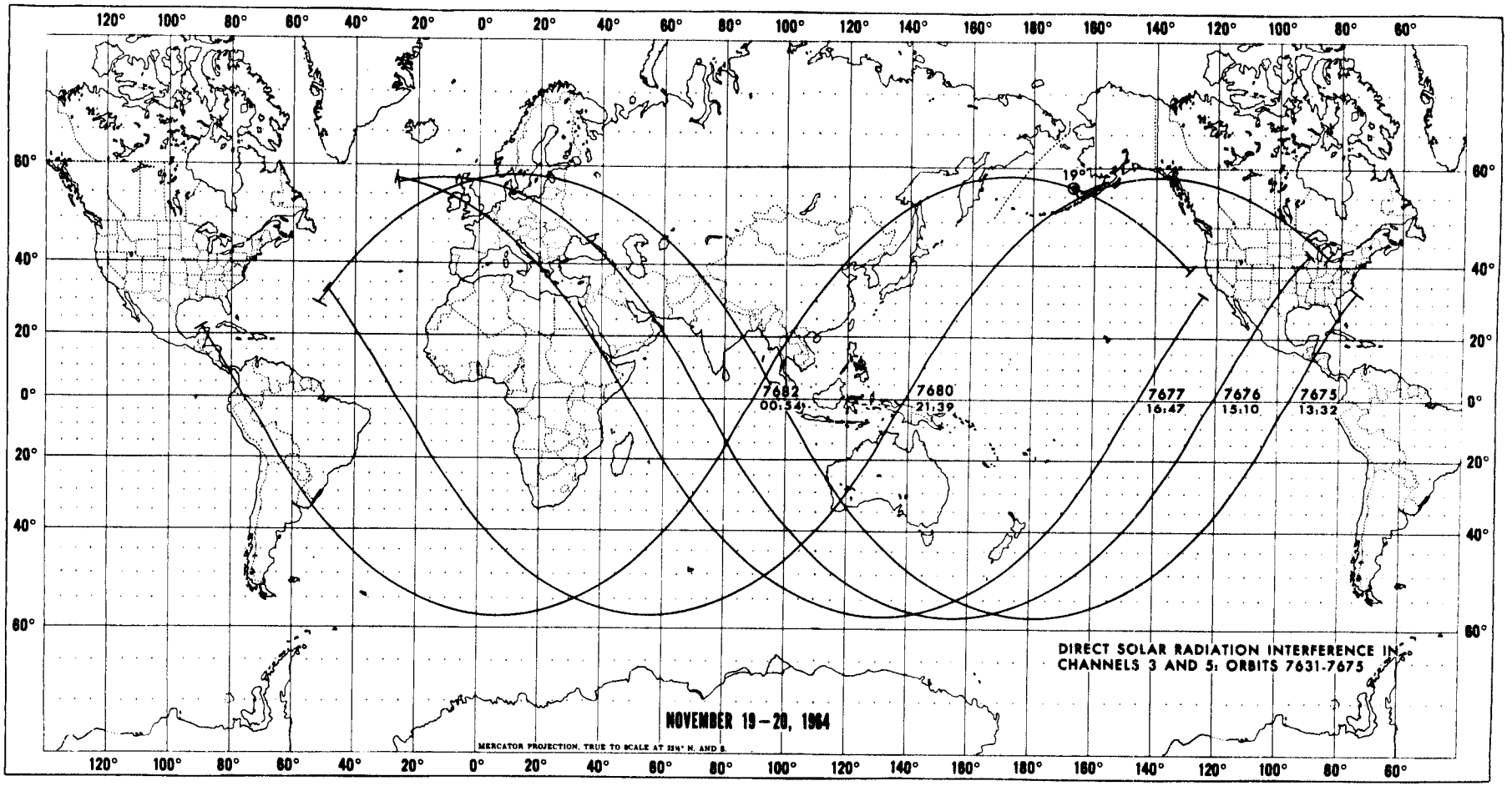

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
22°
7594
02:03
7592
22:48
7589
17:56
NOVEMBER 13 – 14, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S

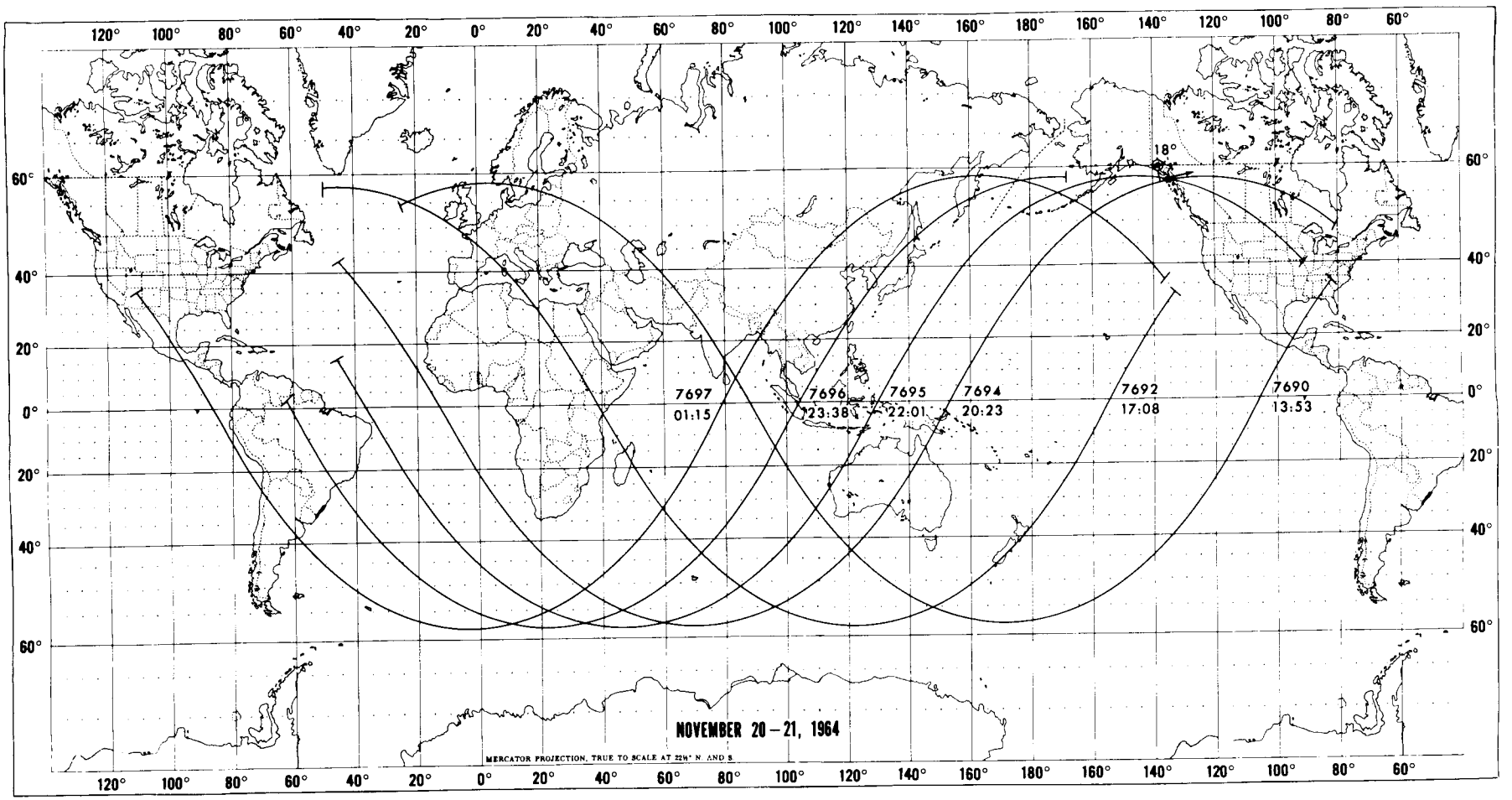

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
23°
7609
02.24
7606
21.32
7604
18.17
NOVEMBER 14 – 15, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

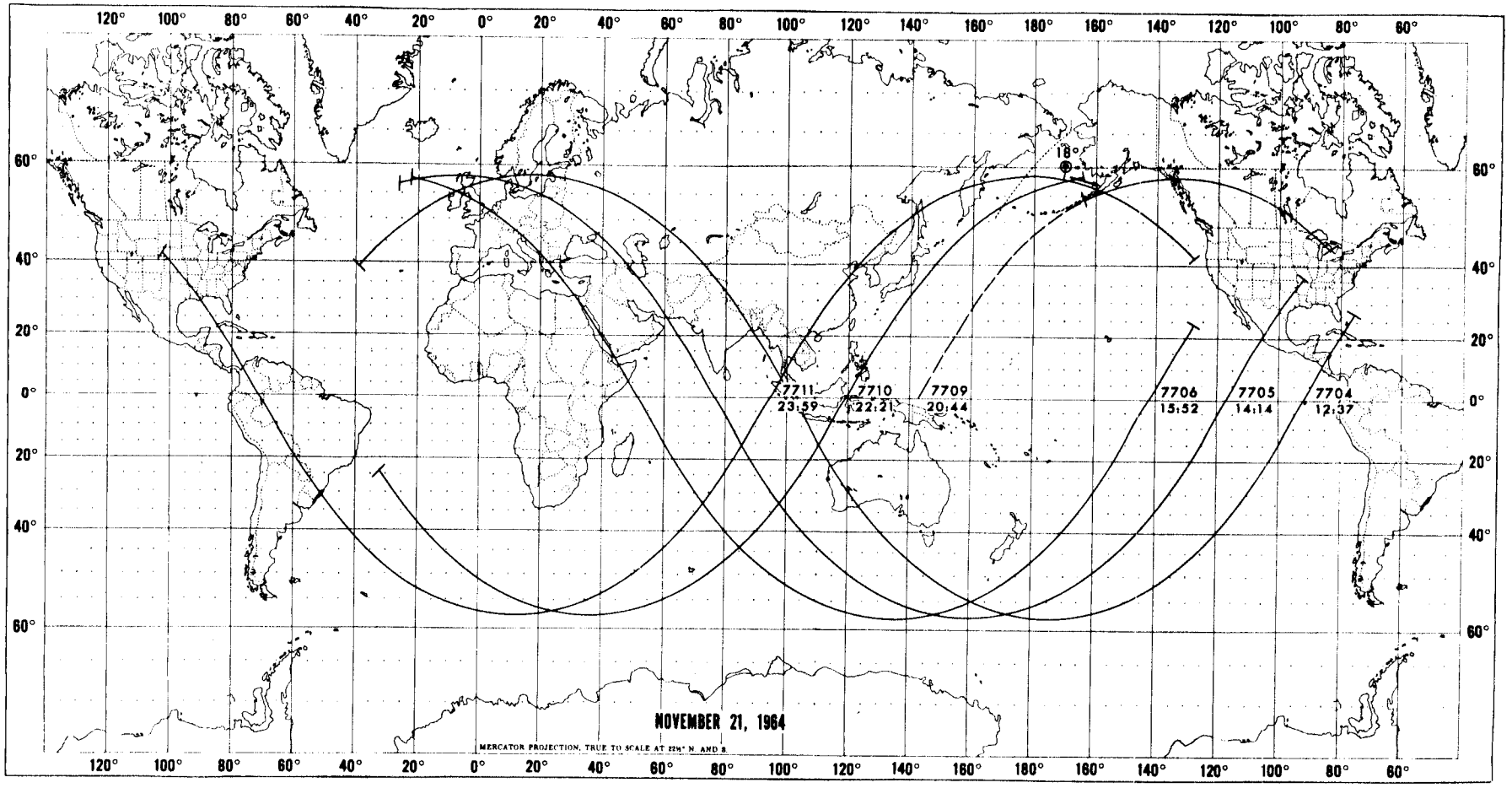

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
25°
7624
02:45
7621
21:53
7618
17:01
NOVEMBER 15-16, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

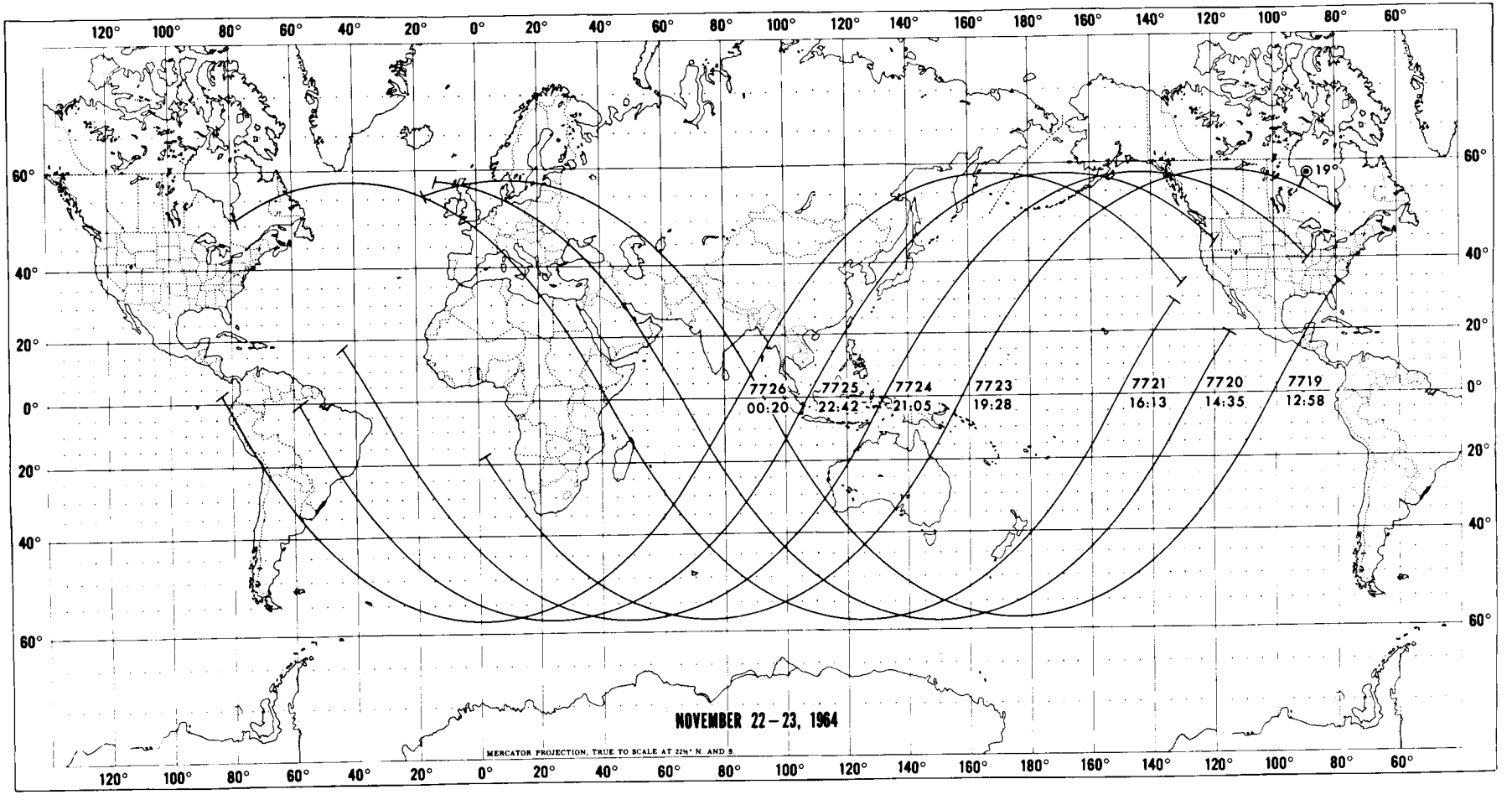

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
26°
7638
01:28
7633
17:21
7631
14:07
DIRECT SOLAR RADIATION INTERFERENCE IN
CHANNELS 3 AND 5: ORBITS 7631-7675
NOVEMBER 16-17, 1964
MERCATOR PROJECTION. TRUE TO SCALE AT 28½° N. AND S.

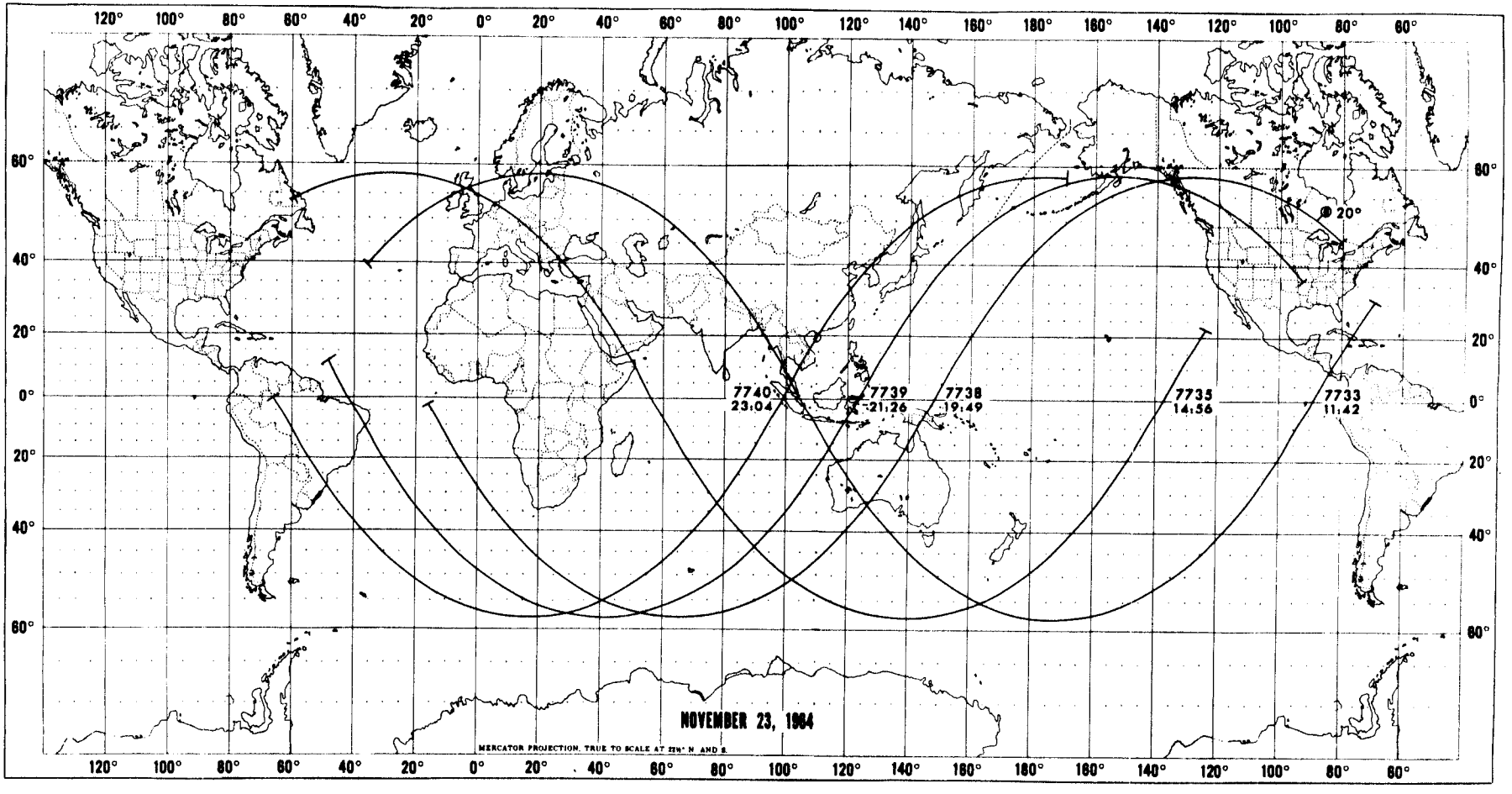

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
21°
7668
02:10
7665
21:18
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5: ORBITS 7631-7675
NOVEMBER 18 – 19, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

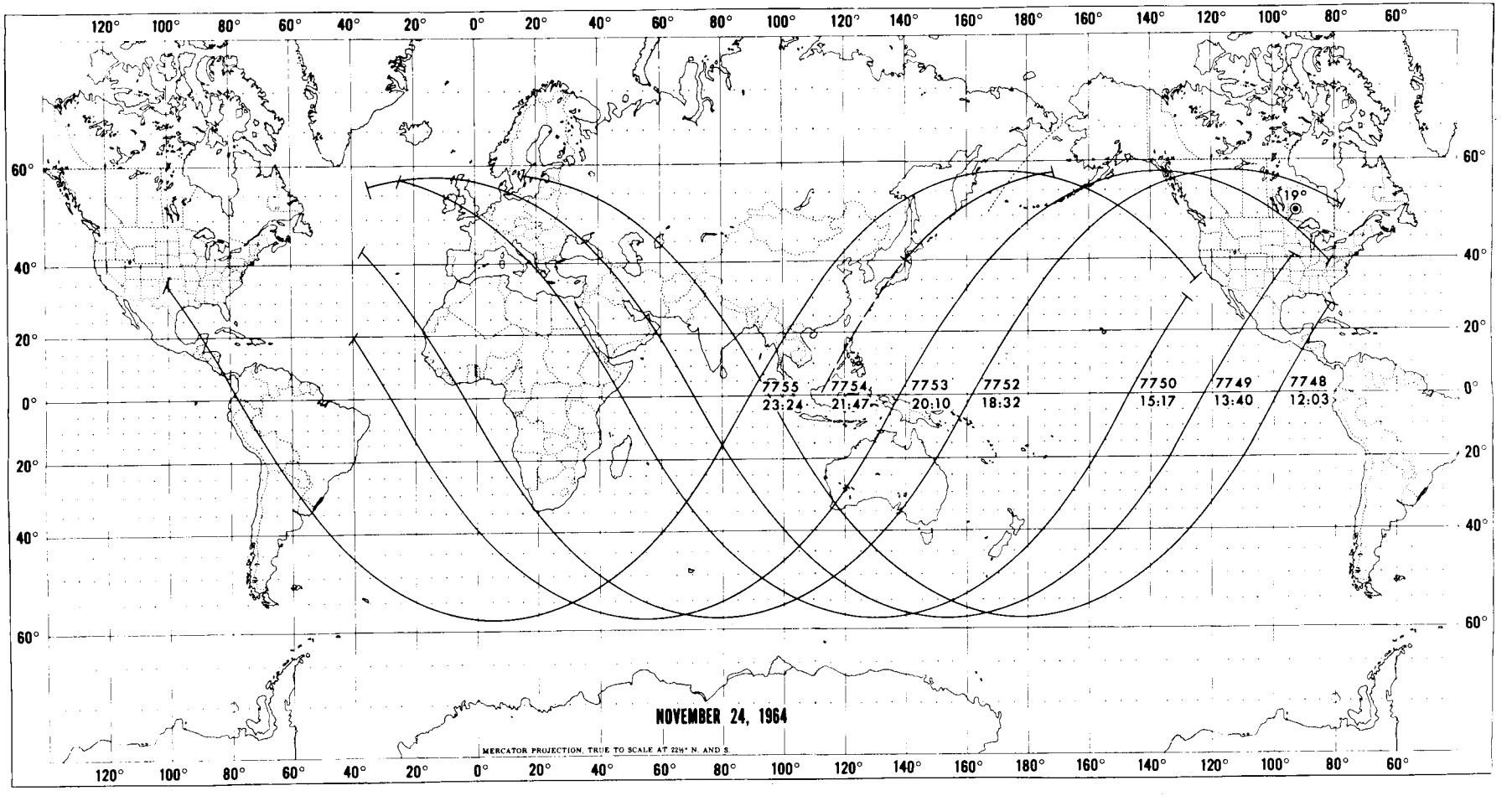

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
19°
7682
00:54
7680
21:39
7677
16:47
7676
15:10
7675
13:32
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5; ORBITS 7631-7675
NOVEMBER 19 – 20, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 25½° N. AND S.

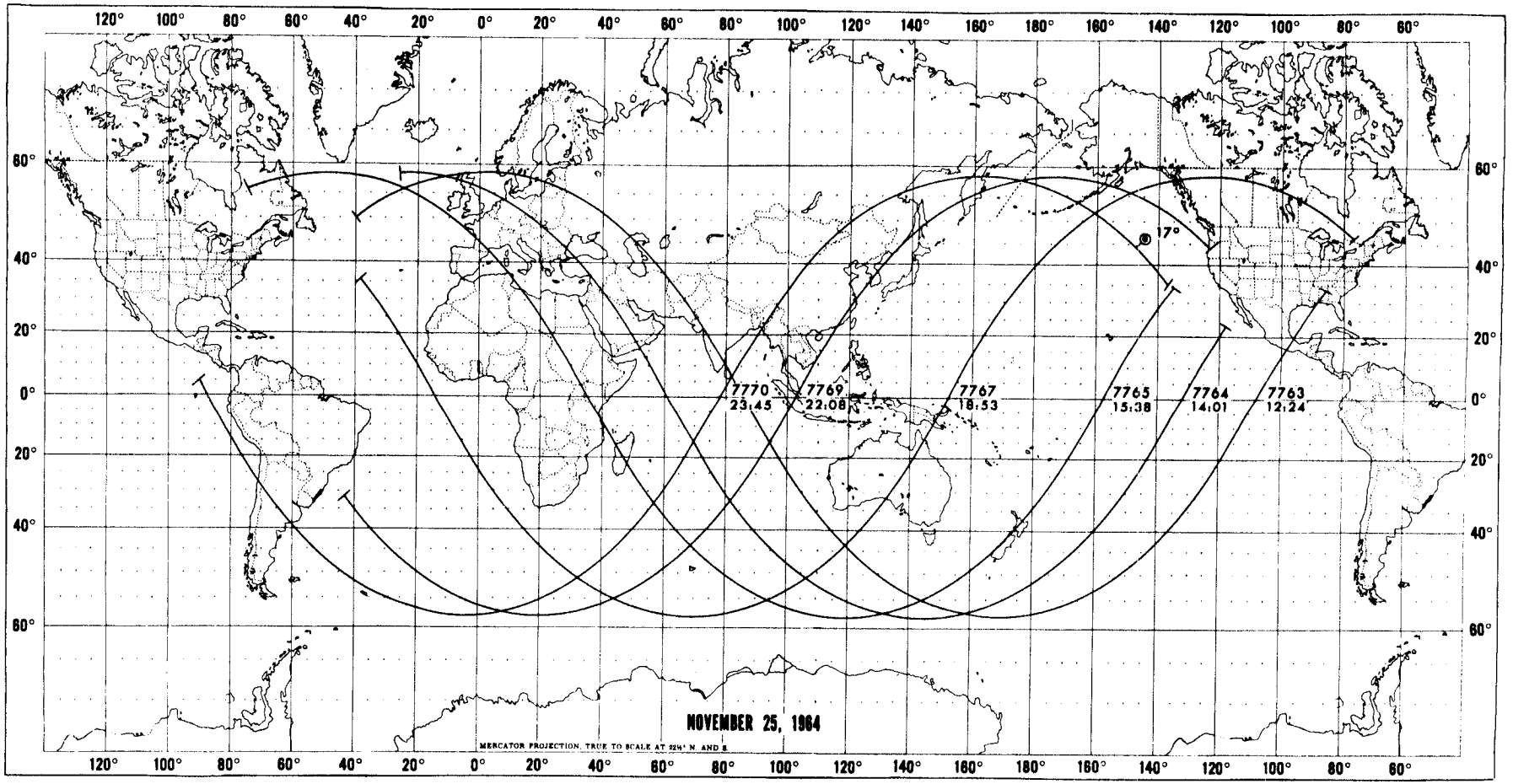

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
18°
7697
01:15
7696
23:38
7695
22:01
7694
20:23
7692
17:08
7690
13:53
NOVEMBER 20–21, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N AND S.

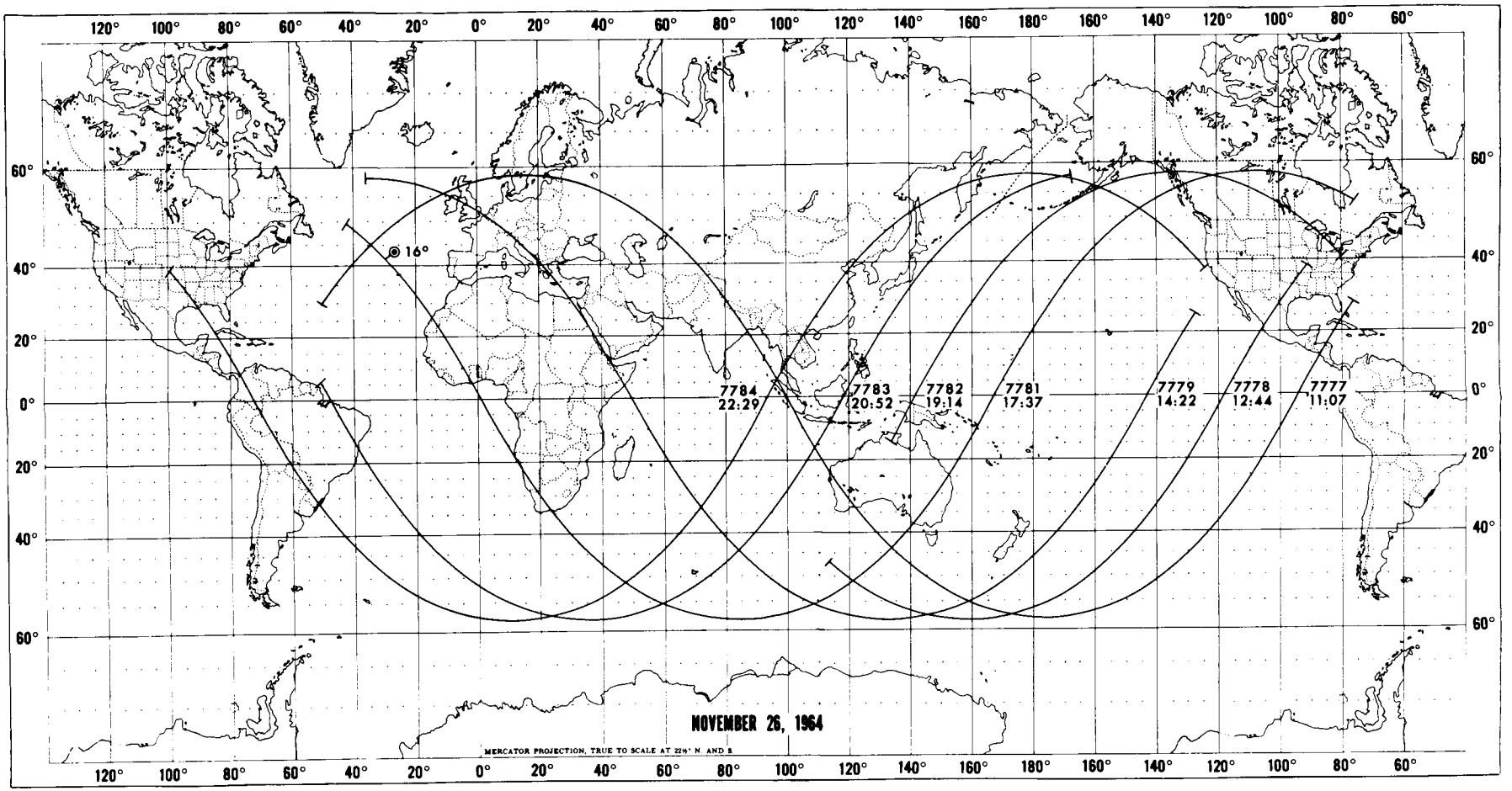

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
18°
7711
23:59
7710
22:21
7709
20:44
7706
15:52
7705
14:14
7704
12:37
NOVEMBER 21, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

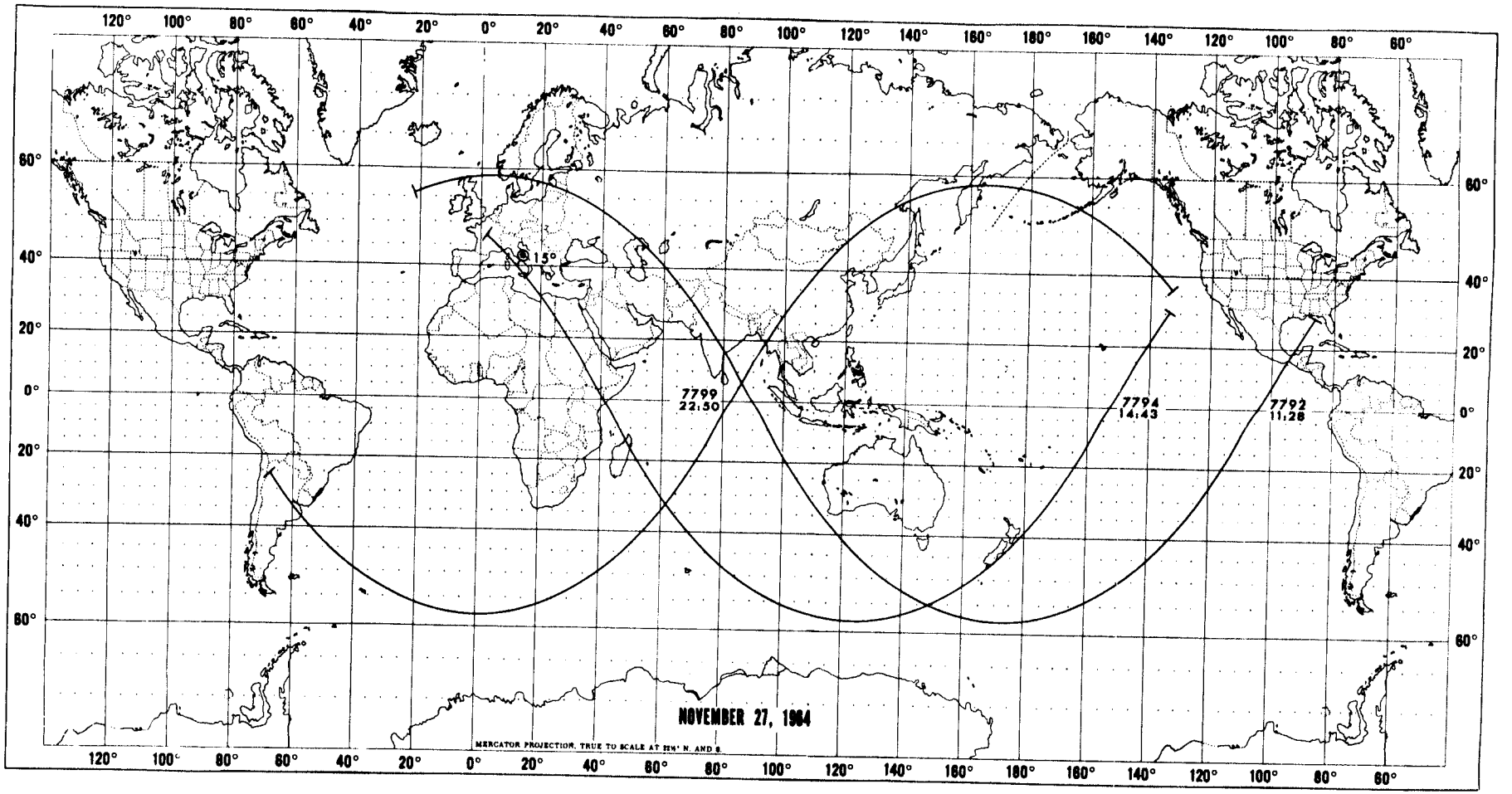

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
19°
7726
00:20
7725
22:42
7724
21:05
7723
19:28
7721
16:13
7720
14:35
7719
12:58
NOVEMBER 22 – 23, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

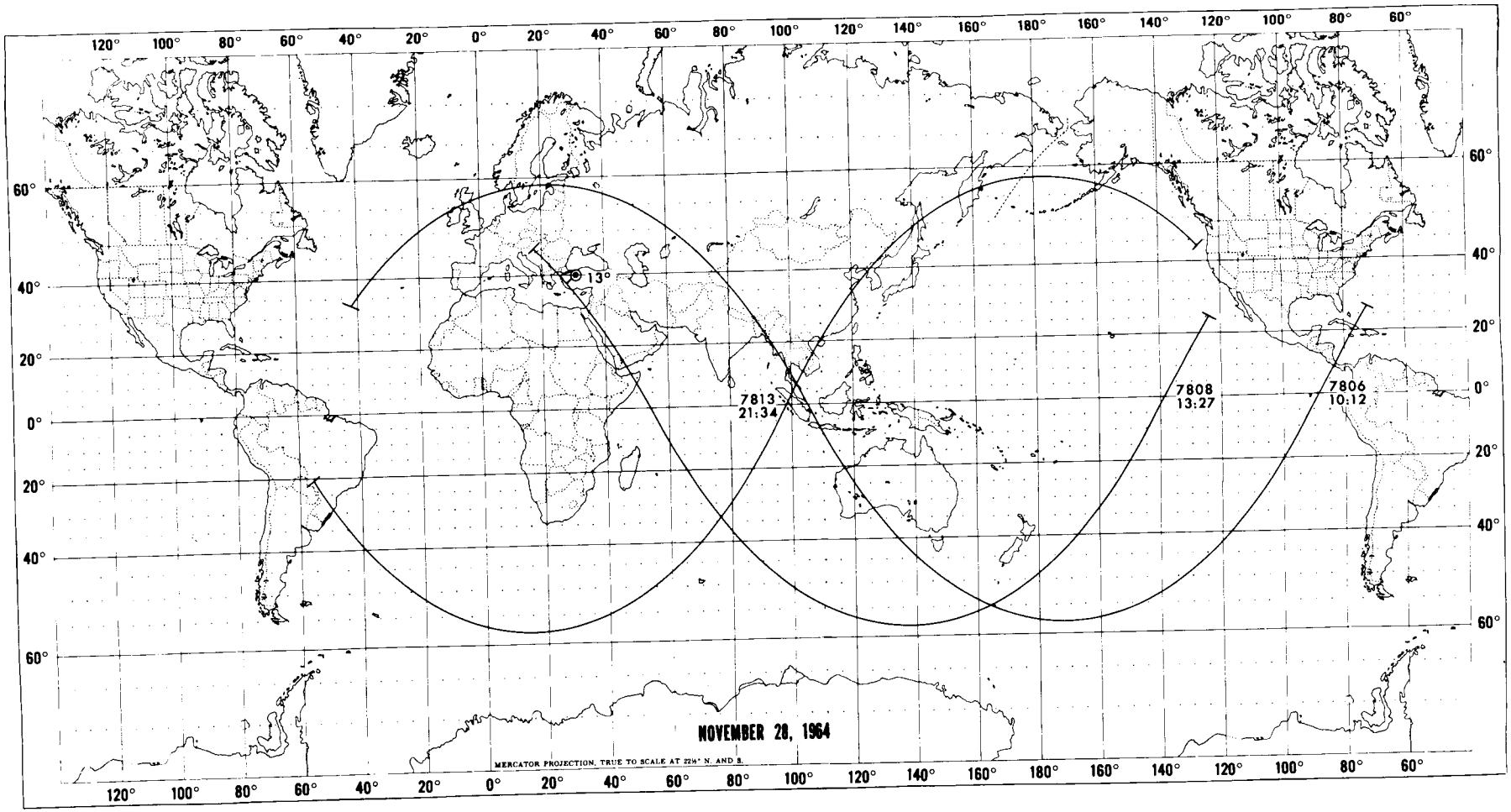

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
7740
23:04
7739
21:26
7738
19:49
7735
14:56
7733
11:42
20°
NOVEMBER 23, 1964
MERCATOR PROJECTION. TRUE TO SCALE AT 22½° N AND S.

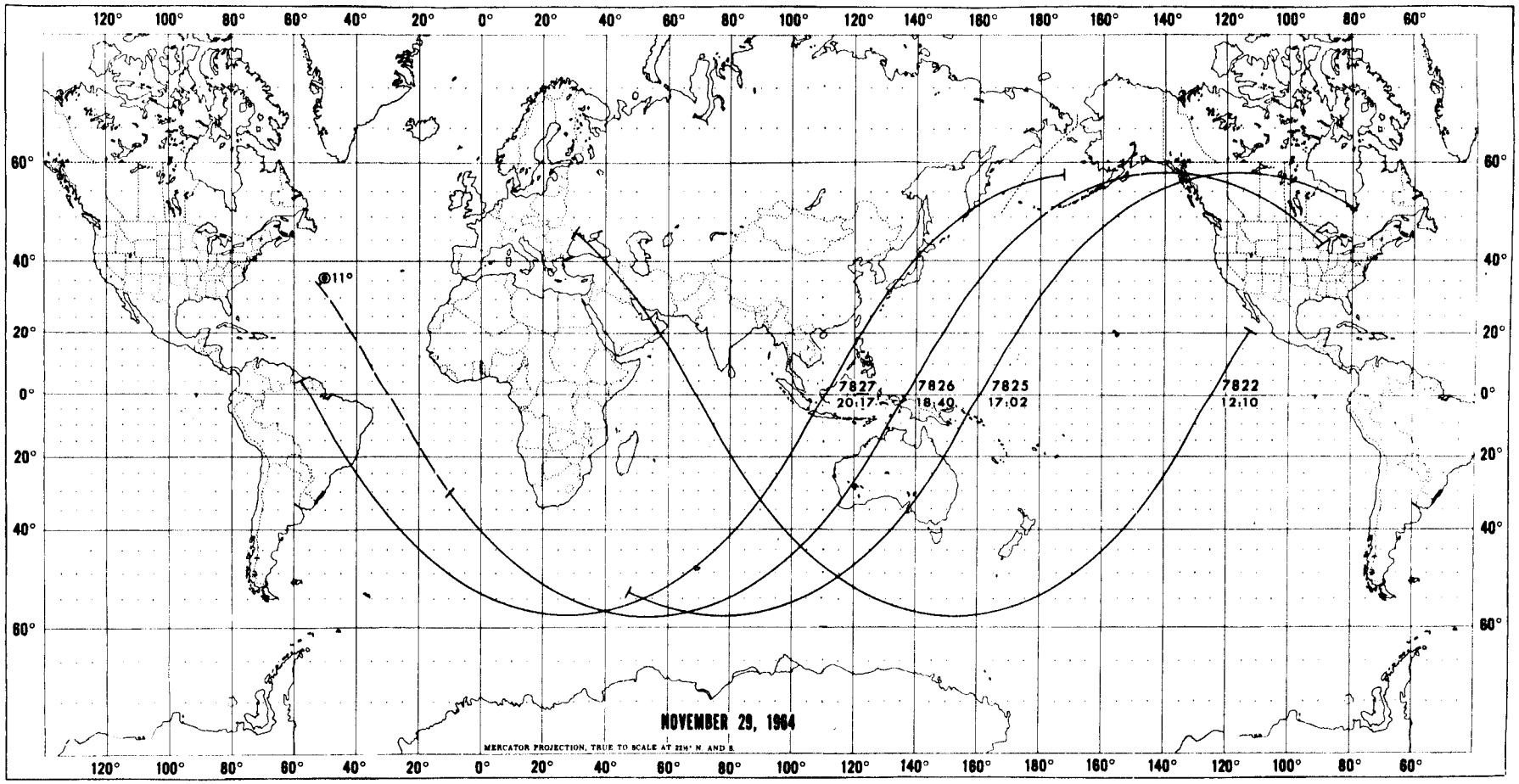

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
7755 23:24
7754 21:47
7753 20:10
7752 18:32
7750 15:17
7749 13:40
7748 12:03
NOVEMBER 24, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

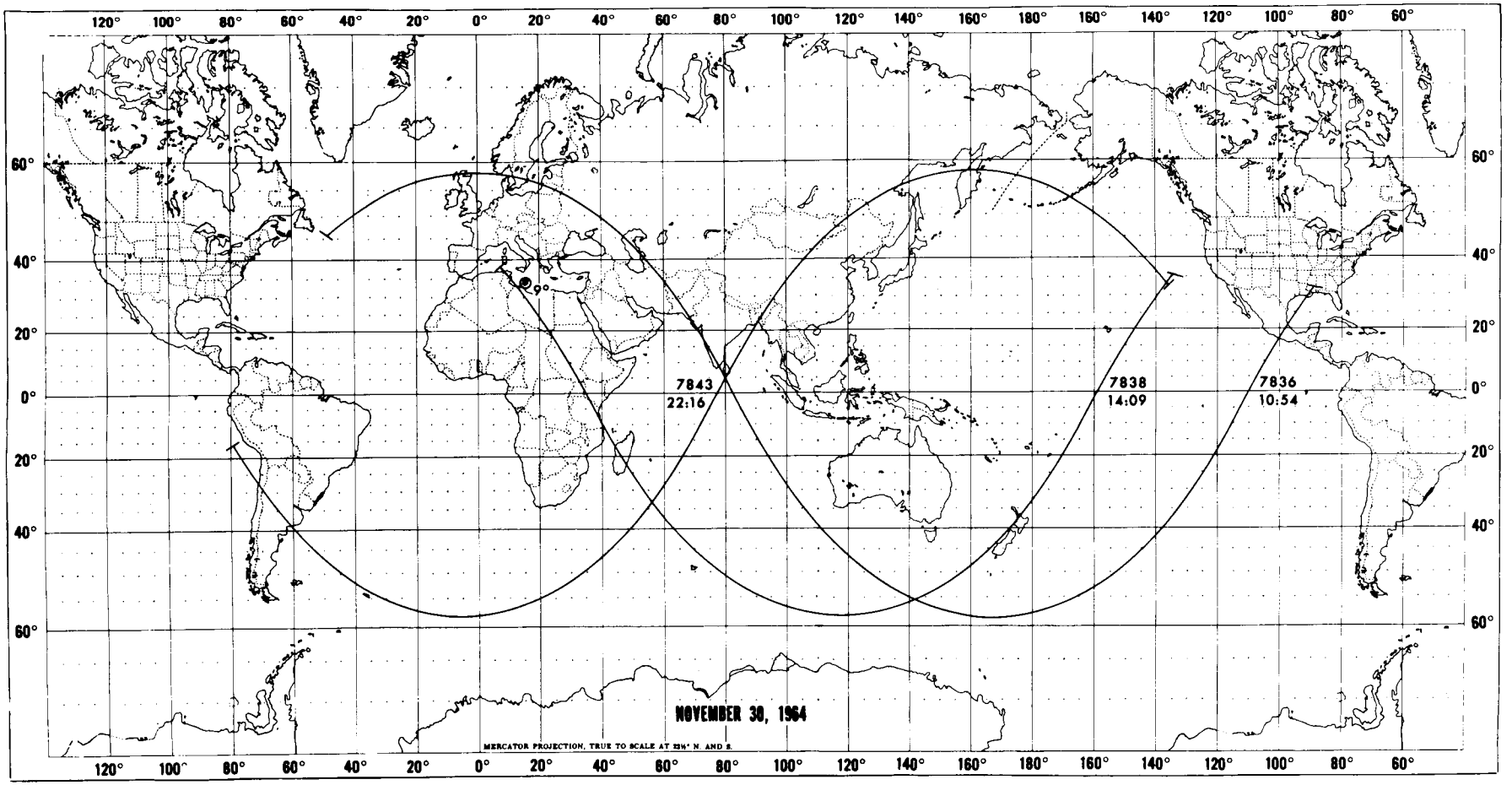

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
17°
7770
23:45
7769
22:08
7767
18:53
7765
15:38
7764
14:01
7763
12:24
NOVEMBER 25, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

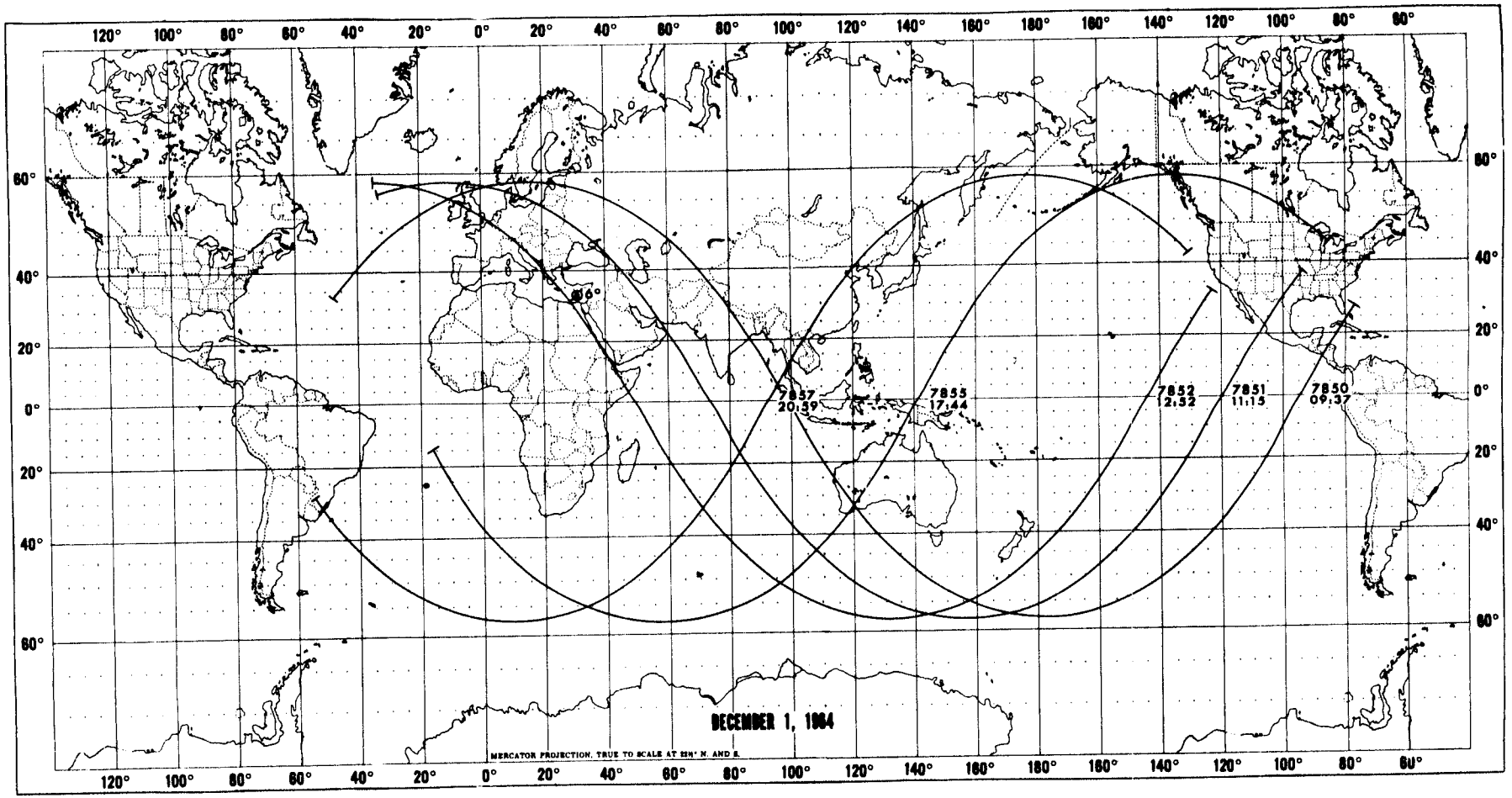

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
16°
7784
22:29
7783
20:52
7782
19:14
7781
17:37
7779
14:22
7778
12:44
7777
11:07
NOVEMBER 26, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N AND S

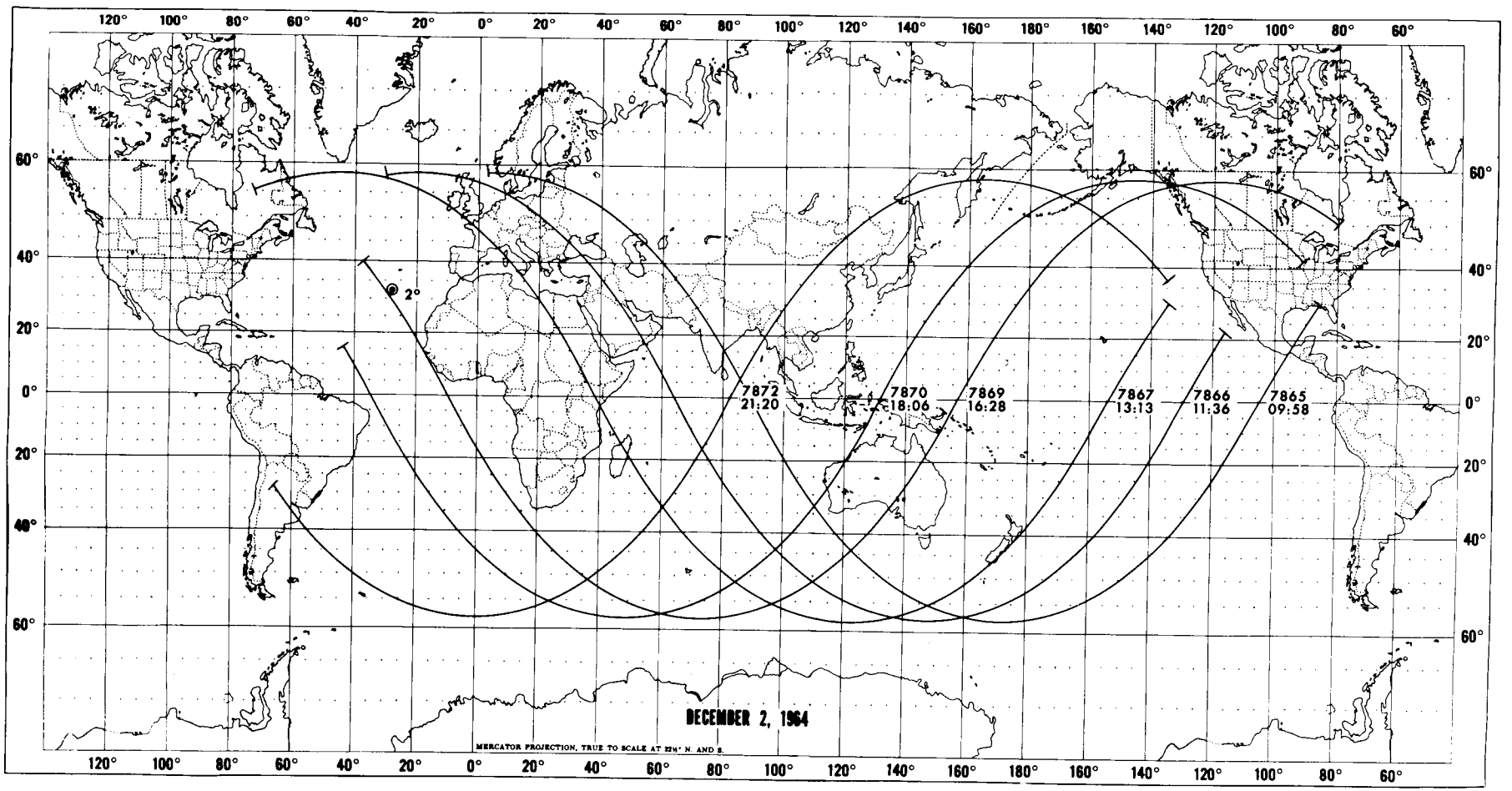

7799
22.50
7794
14.43
7792
11.28
15°
NOVEMBER 27, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 20° N. AND S.

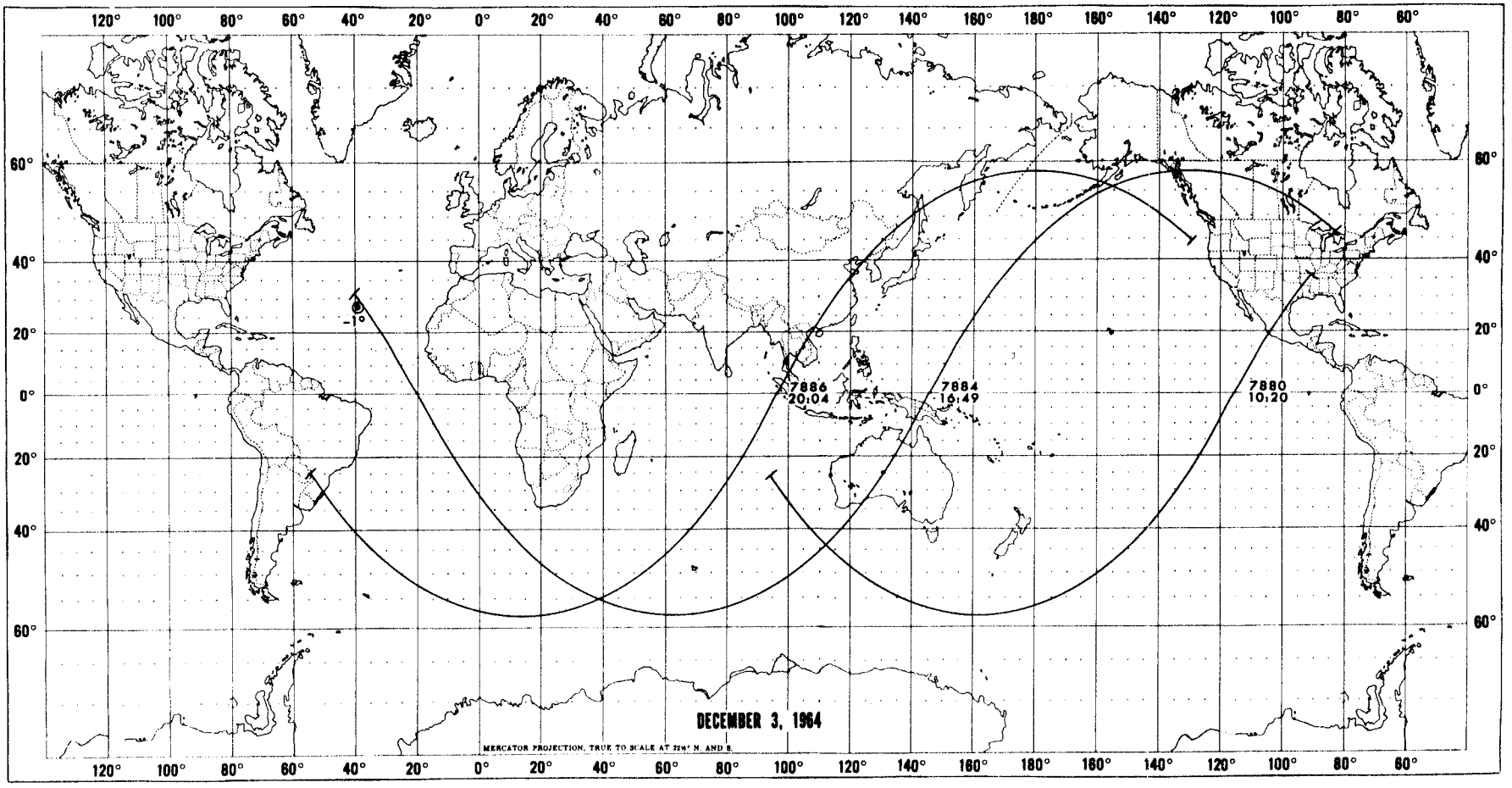

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
13°
7813
21:34
7808
13:27
7806
10:12
NOVEMBER 28, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
11°
7827
20.17
7826
18.49
7825
17.02
7822
12.10
NOVEMBER 29, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 21½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
9°
7843
22:16
7838
14:09
7836
10:54
NOVEMBER 30, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 23½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
7857
20:39
7855
17:44
7852
2:52
7851
11:15
7850
09:37
DECEMBER 1, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 33½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
2°
7872
21:20
7870
18:06
7869
16:28
7867
13:13
7866
11:36
7865
09:58
DECEMBER 2, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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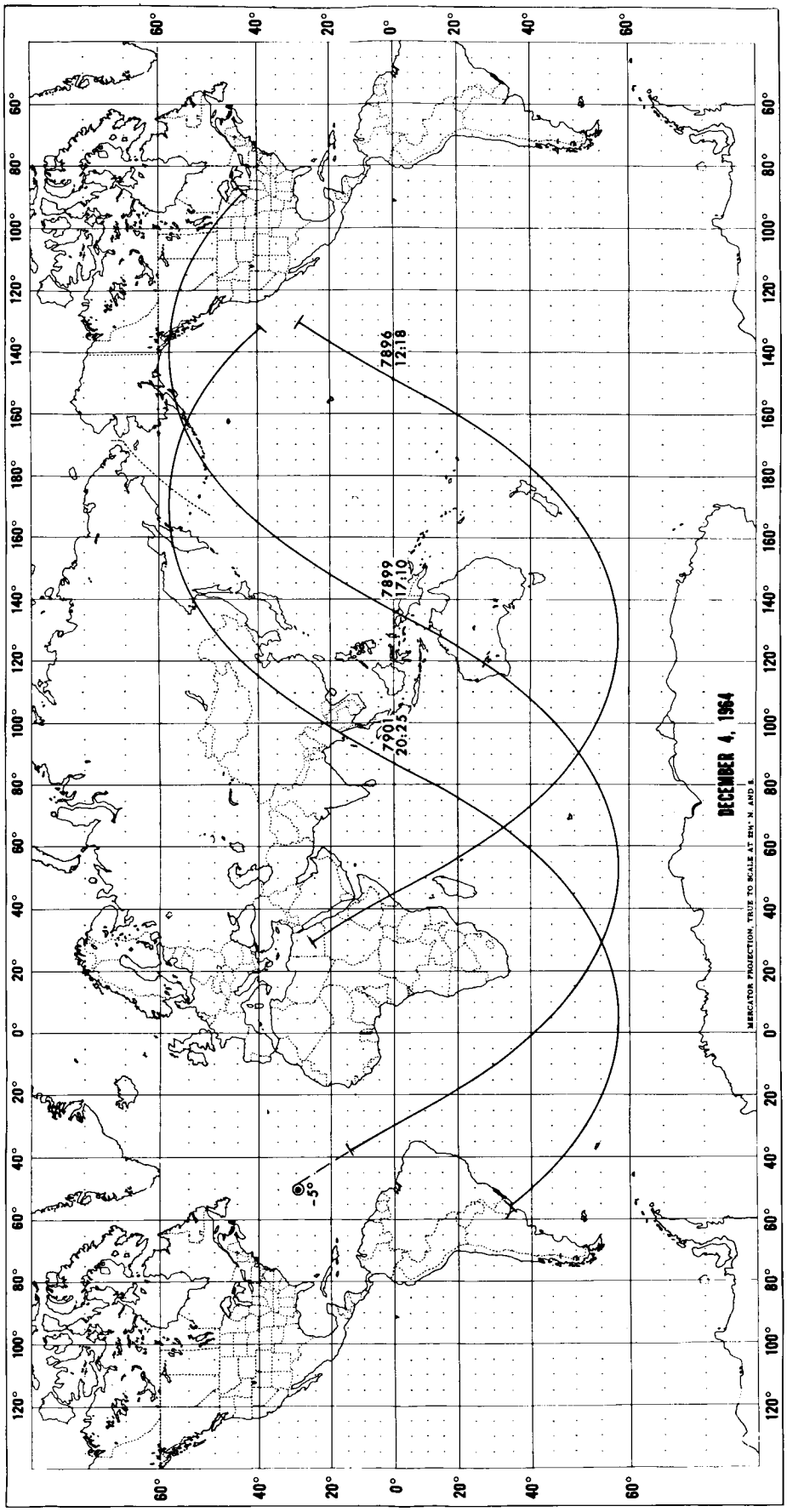
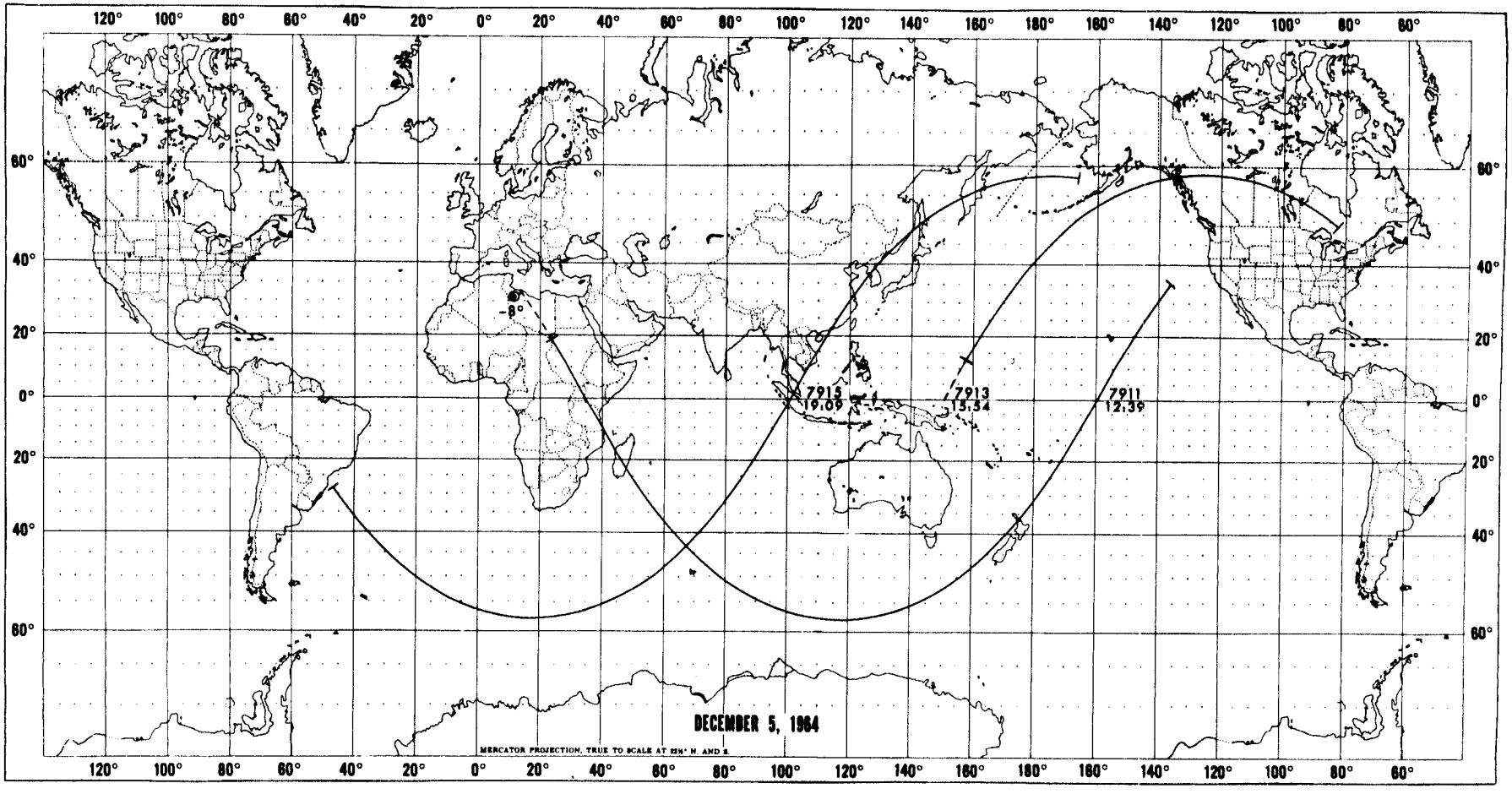
60°
40°
20°
0°
20°
40°
60°
-1°
7886
20:04
7884
16:49
7880
10:20
DECEMBER 3, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.


7896
12:18
7899
17:10
7901
20:25
-5°
DECEMBER 4, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 28½° N AND S.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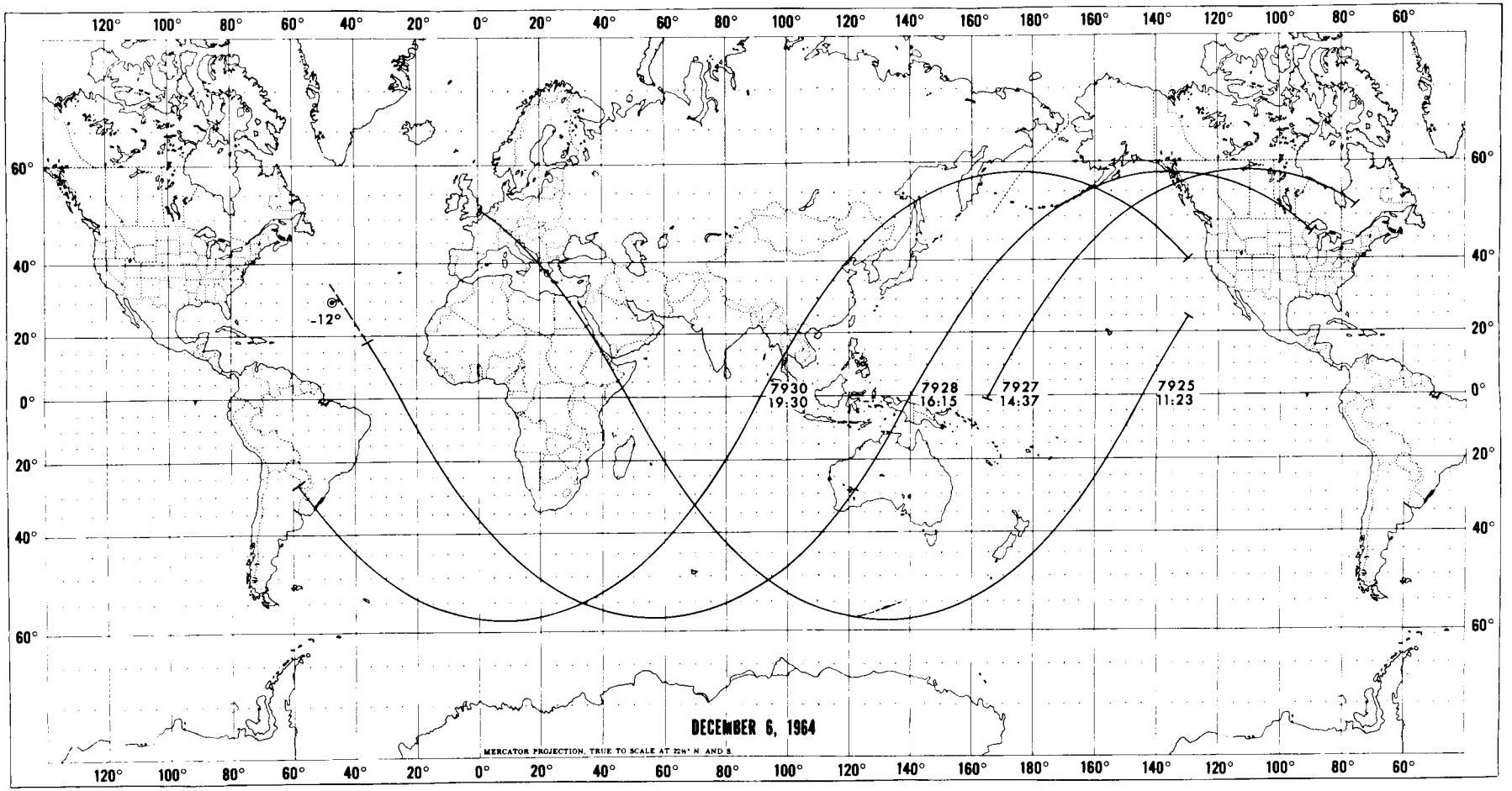
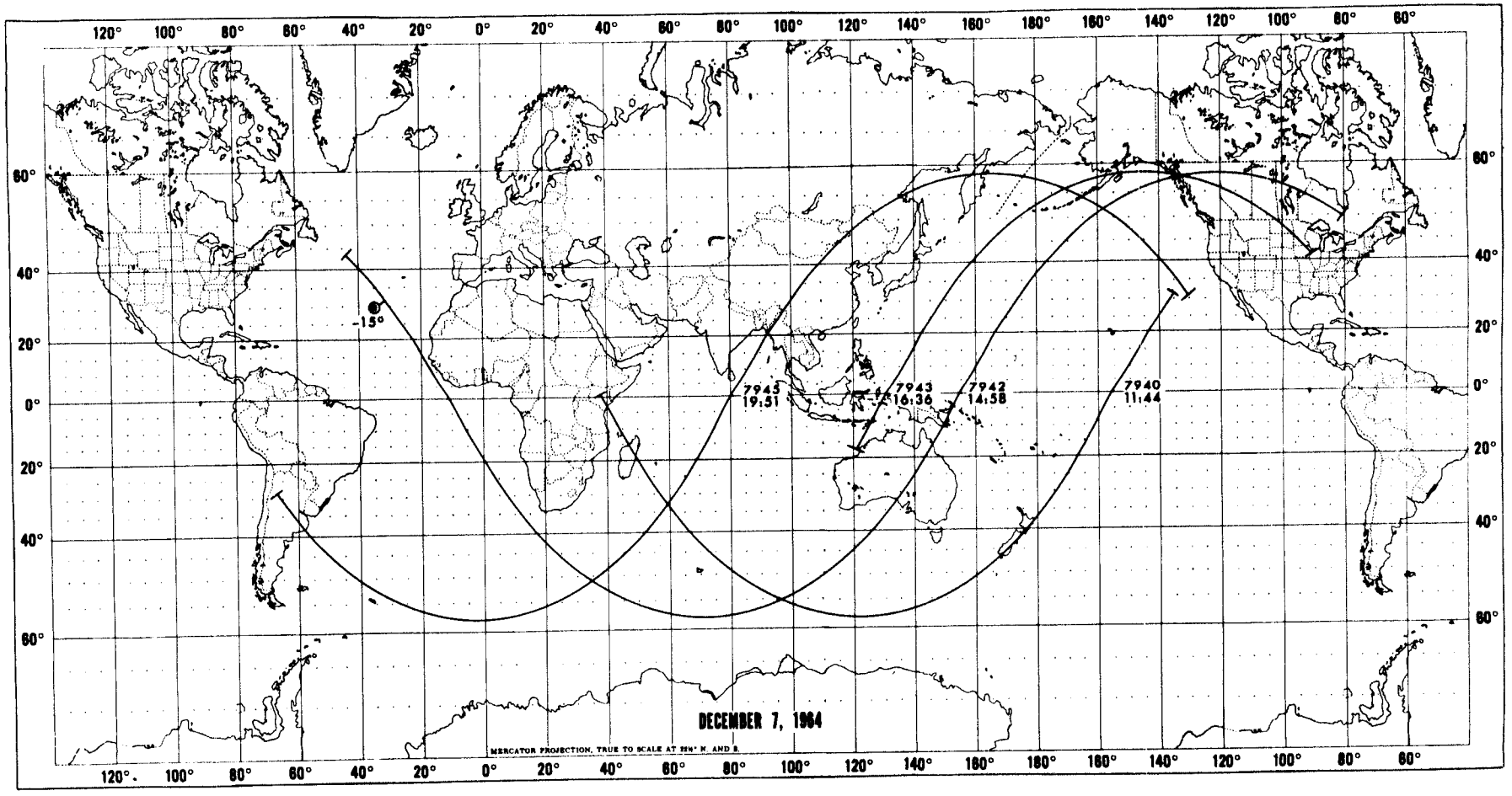
60°
40°
20°
0°
20°
40°
60°
-8°
7915
19.09
7913
13.34
7911
12.39
DECEMBER 5, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
-12°
7930
19:30
7928
16:15
7927
14:37
7925
11:23
DECEMBER 6, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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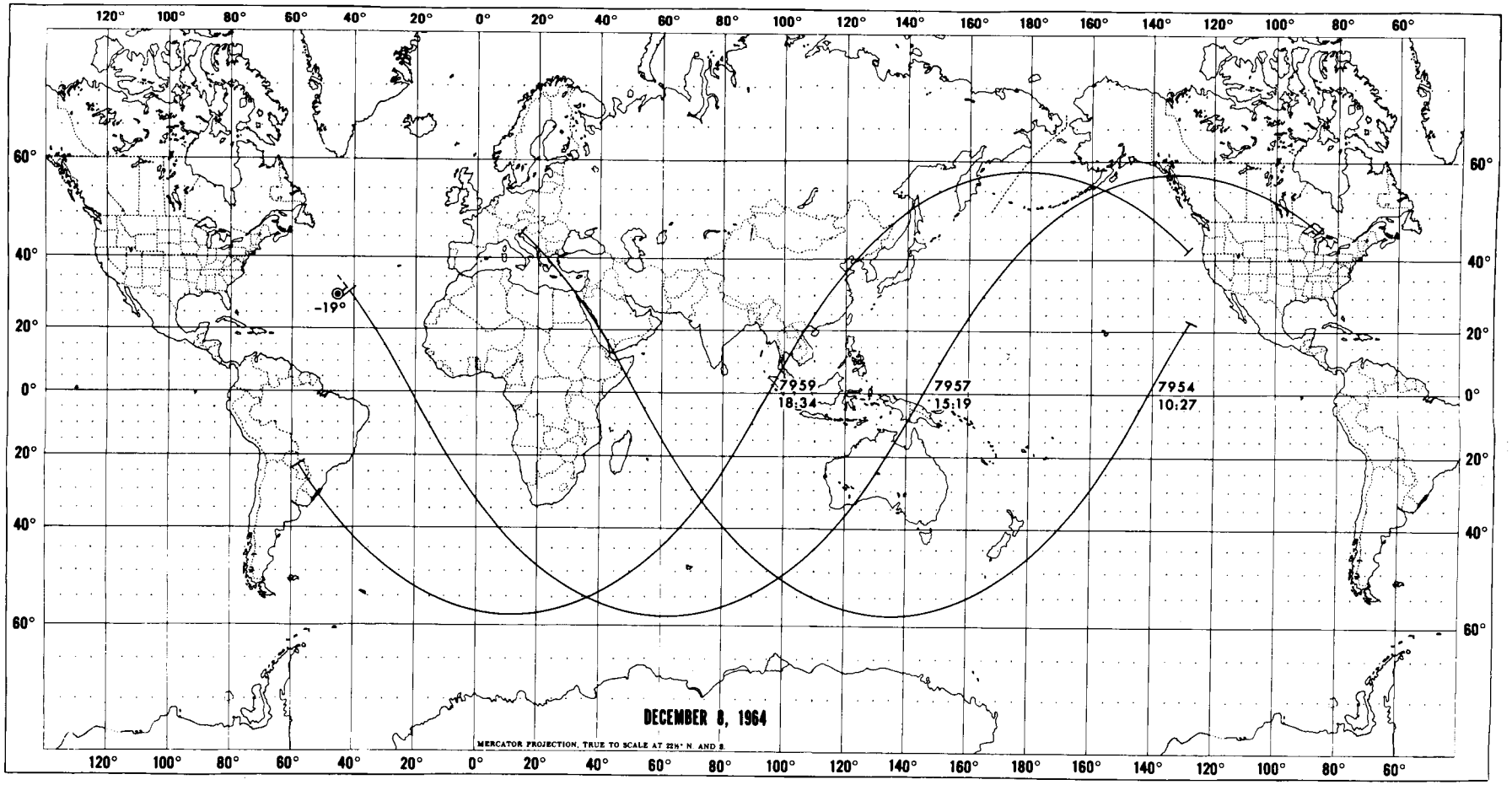
60°
40°
20°
0°
20°
40°
60°
-15°
7945
19:51
7943
16:36
7942
14:58
7940
11:44
DECEMBER 7, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 20° N. AND S.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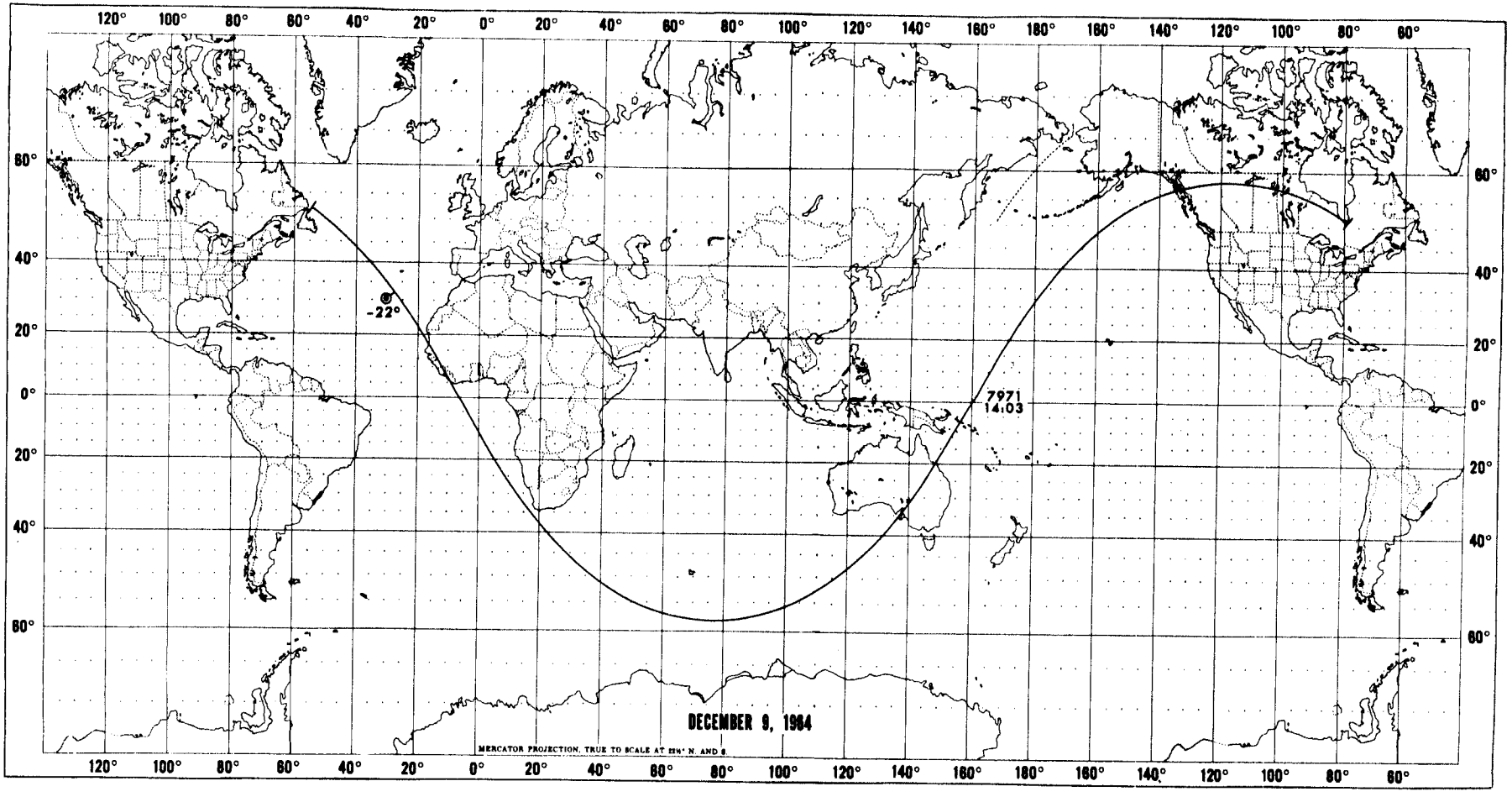
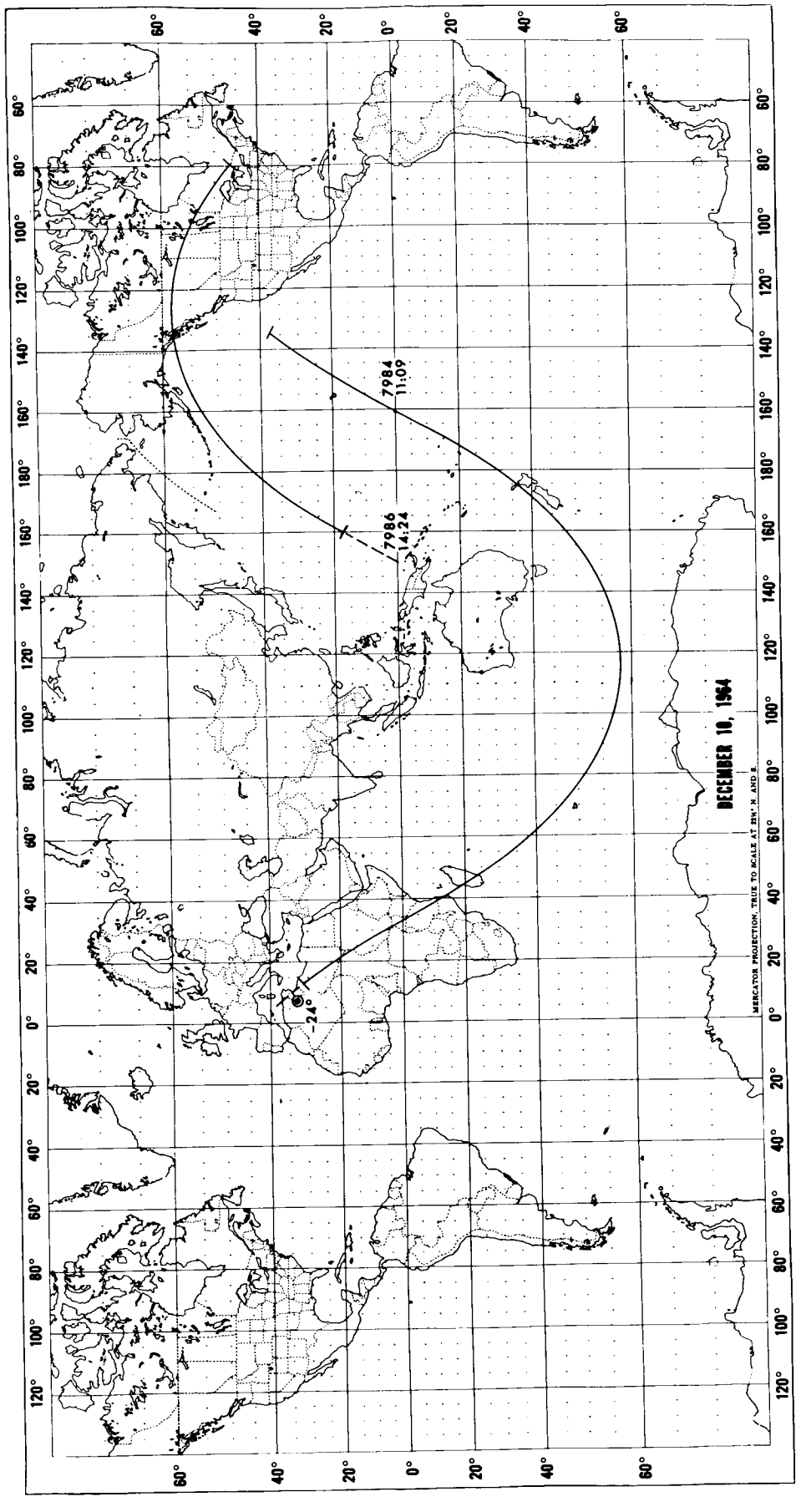
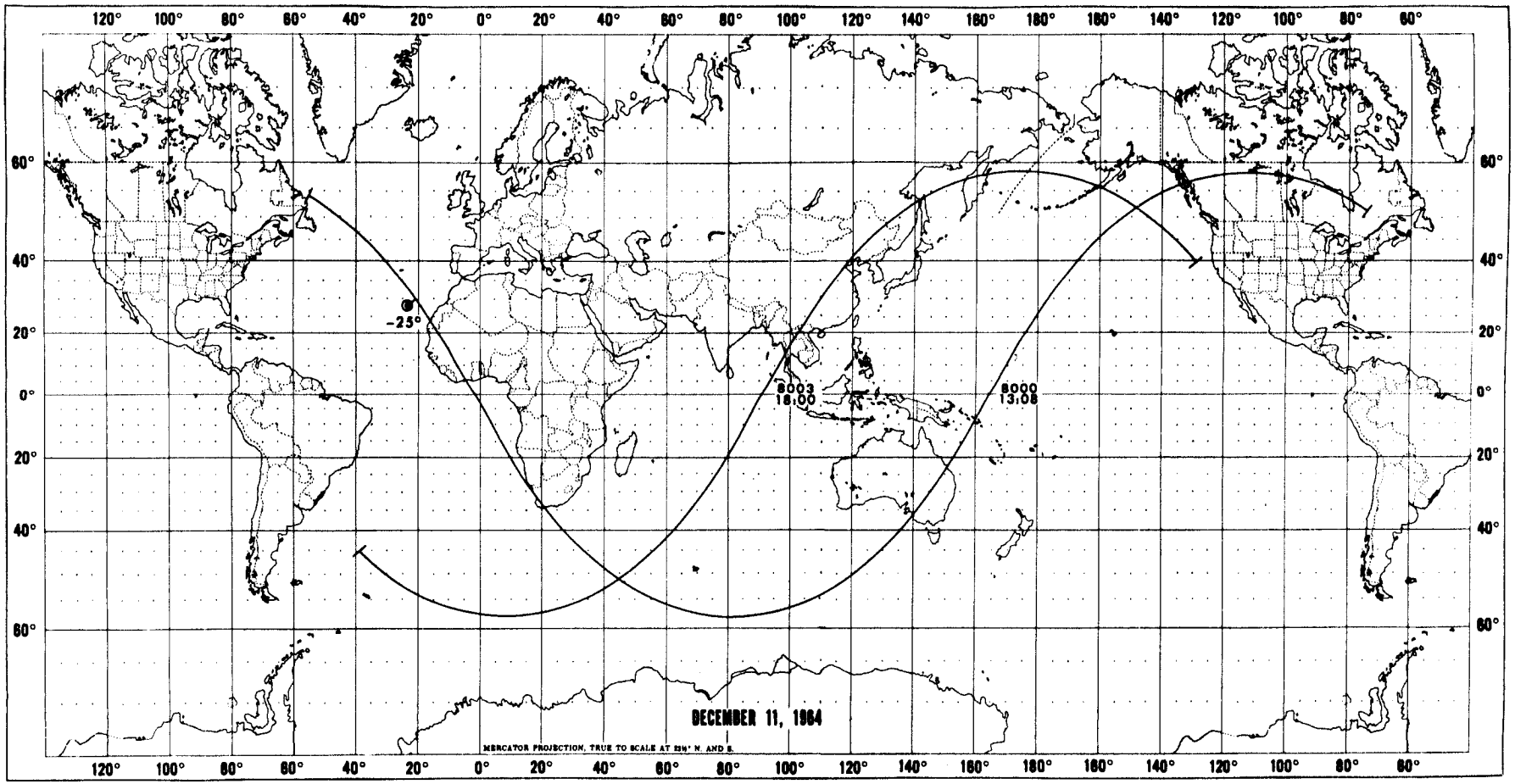
60°
40°
20°
0°
20°
40°
60°
-19°
7959
18:34
7957
15:19
7954
10:27
DECEMBER 8, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N AND S


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
80°
40°
20°
0°
20°
40°
60°
-22°
7971
14:03
DECEMBER 9, 1994
MERCATOR PROJECTION, TRUE TO SCALE AT 23½° N. AND S.


7984
11:09
7986
14:24
-24°
DECEMBER 10, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 25½° N. AND S.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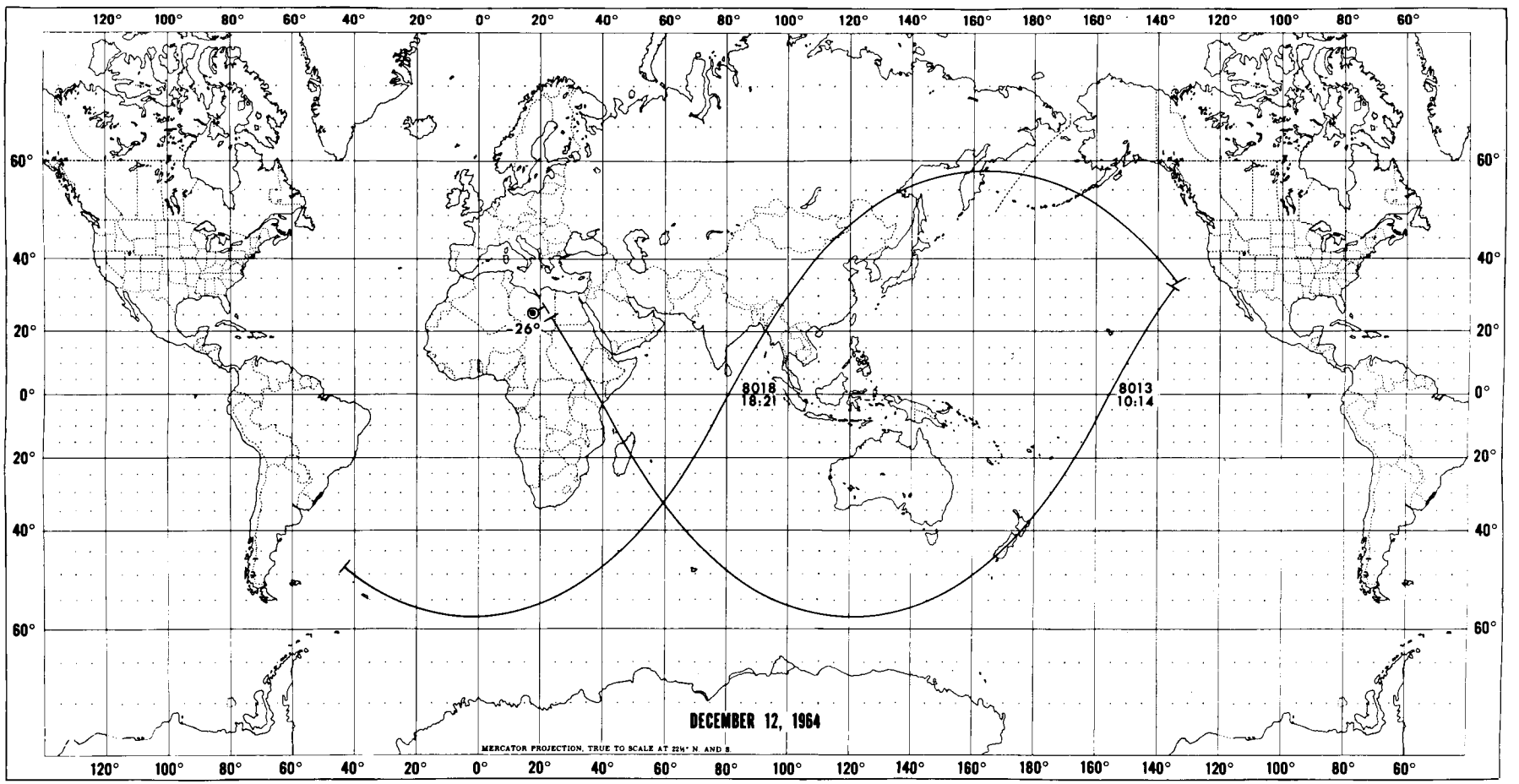
60°
40°
20°
0°
20°
40°
60°
-25°
8003
18:00
8000
13:08
DECEMBER 11, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 33½° N. AND S.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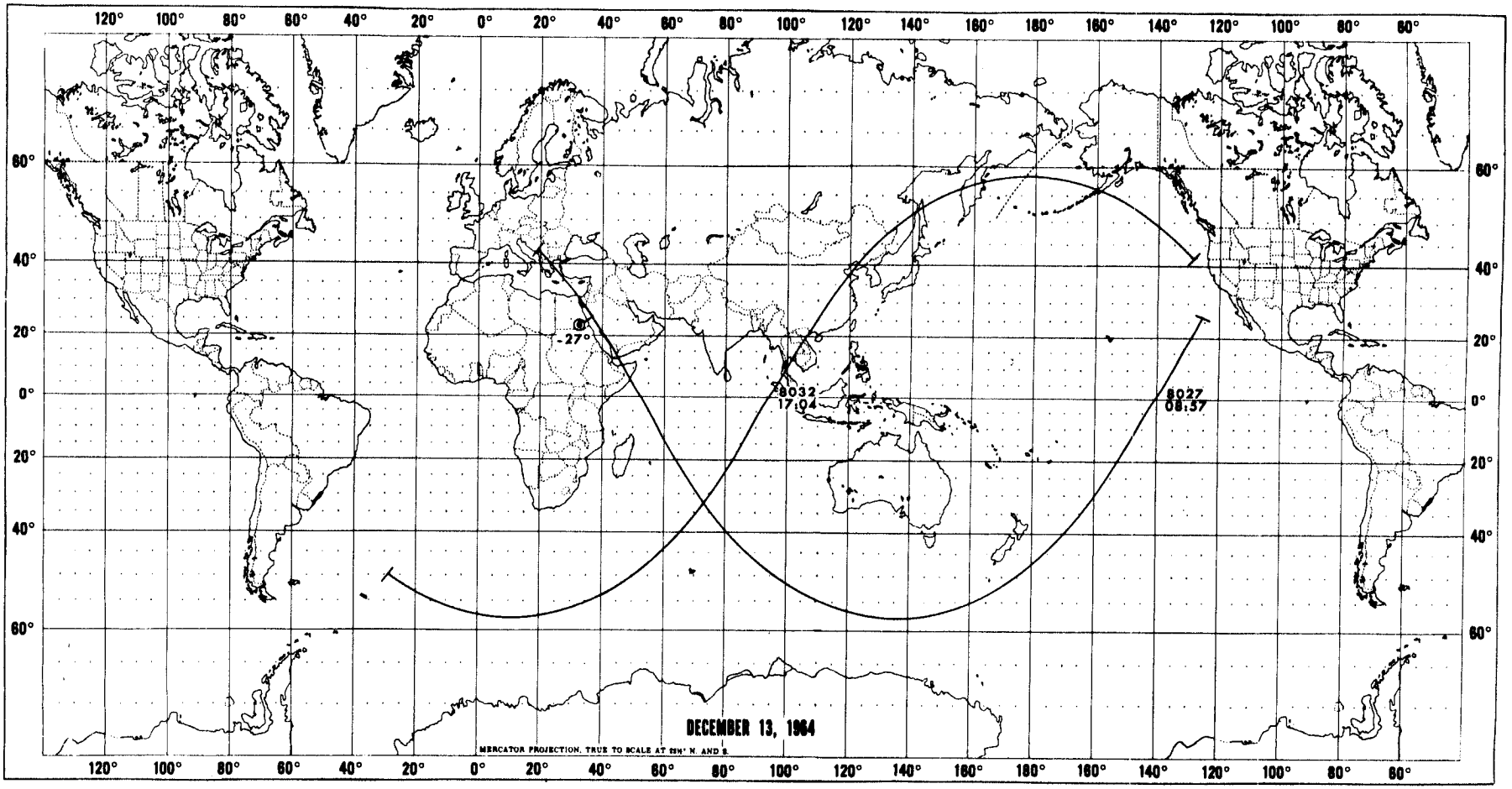
60°
40°
20°
0°
20°
40°
60°
26°
8018
18:21
8013
10:14
DECEMBER 12, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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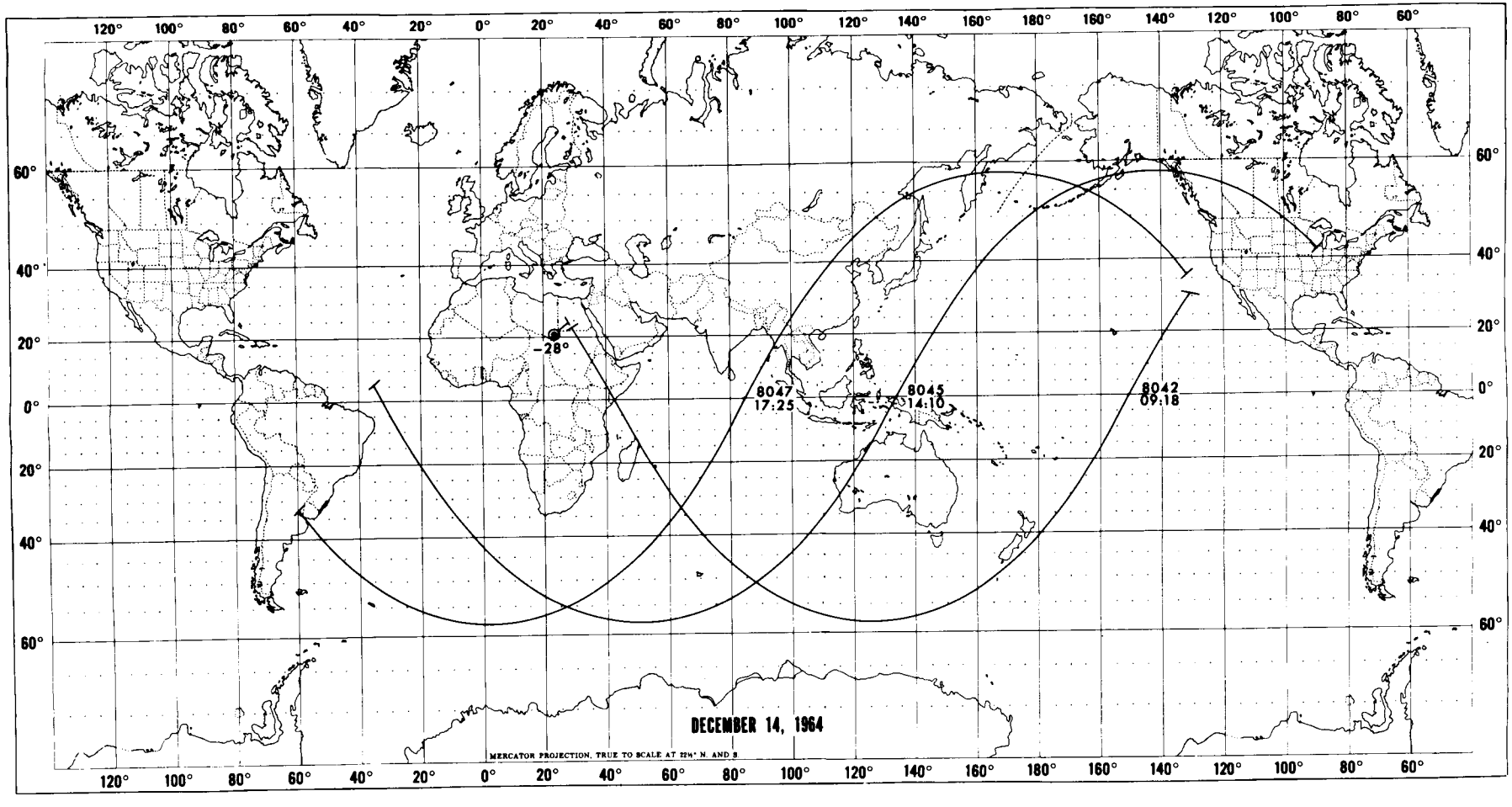
60°
40°
20°
0°
20°
40°
60°
-27°
8032
17:04
8027
08:37
DECEMBER 13, 1964
MERCATOR PROJECTION. TRUE TO SCALE AT 25½° N. AND S.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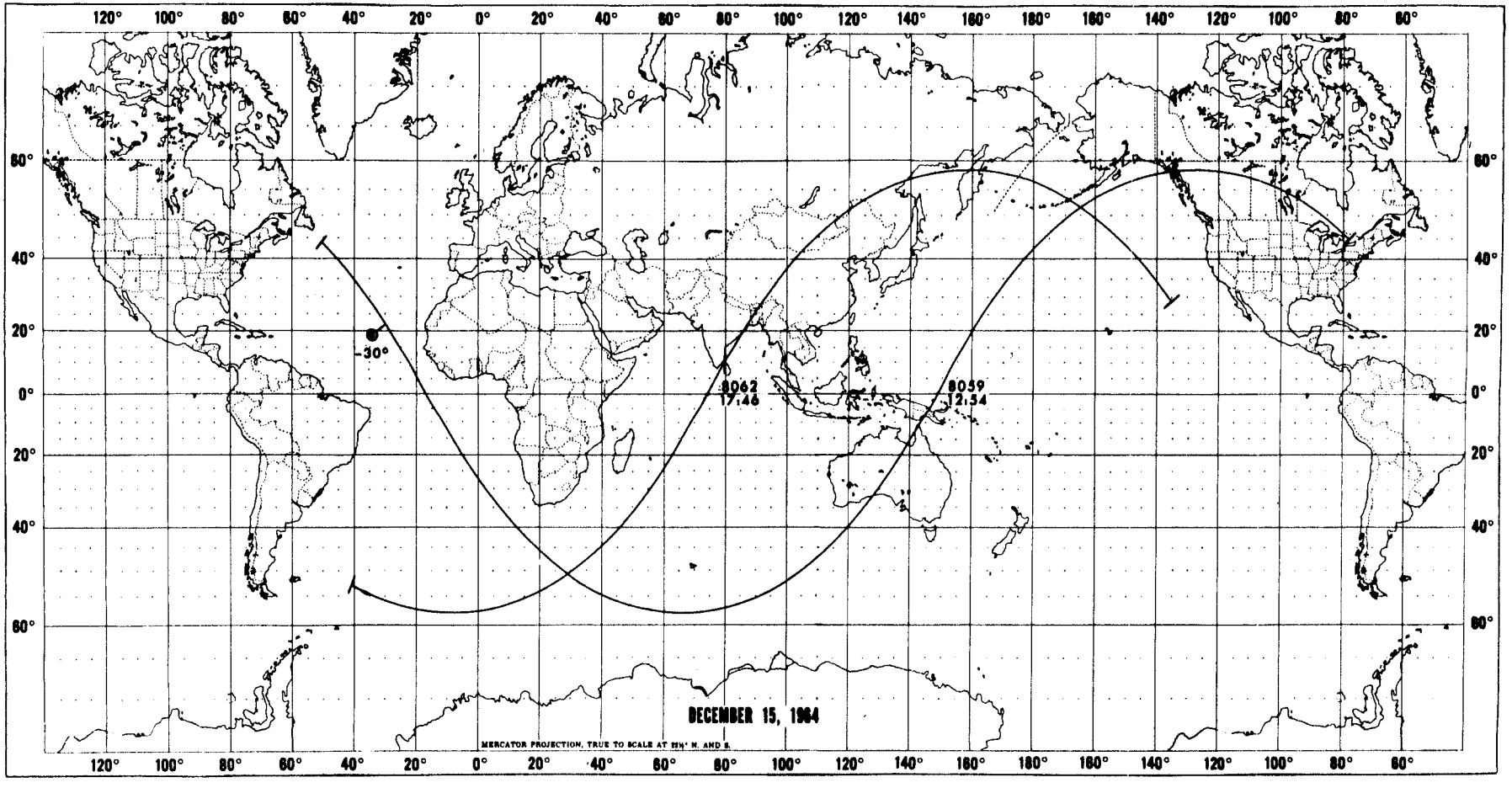
60°
40°
20°
0°
20°
40°
60°
-28°
8047
17:25
8045
14:10
8042
09:18
DECEMBER 14, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S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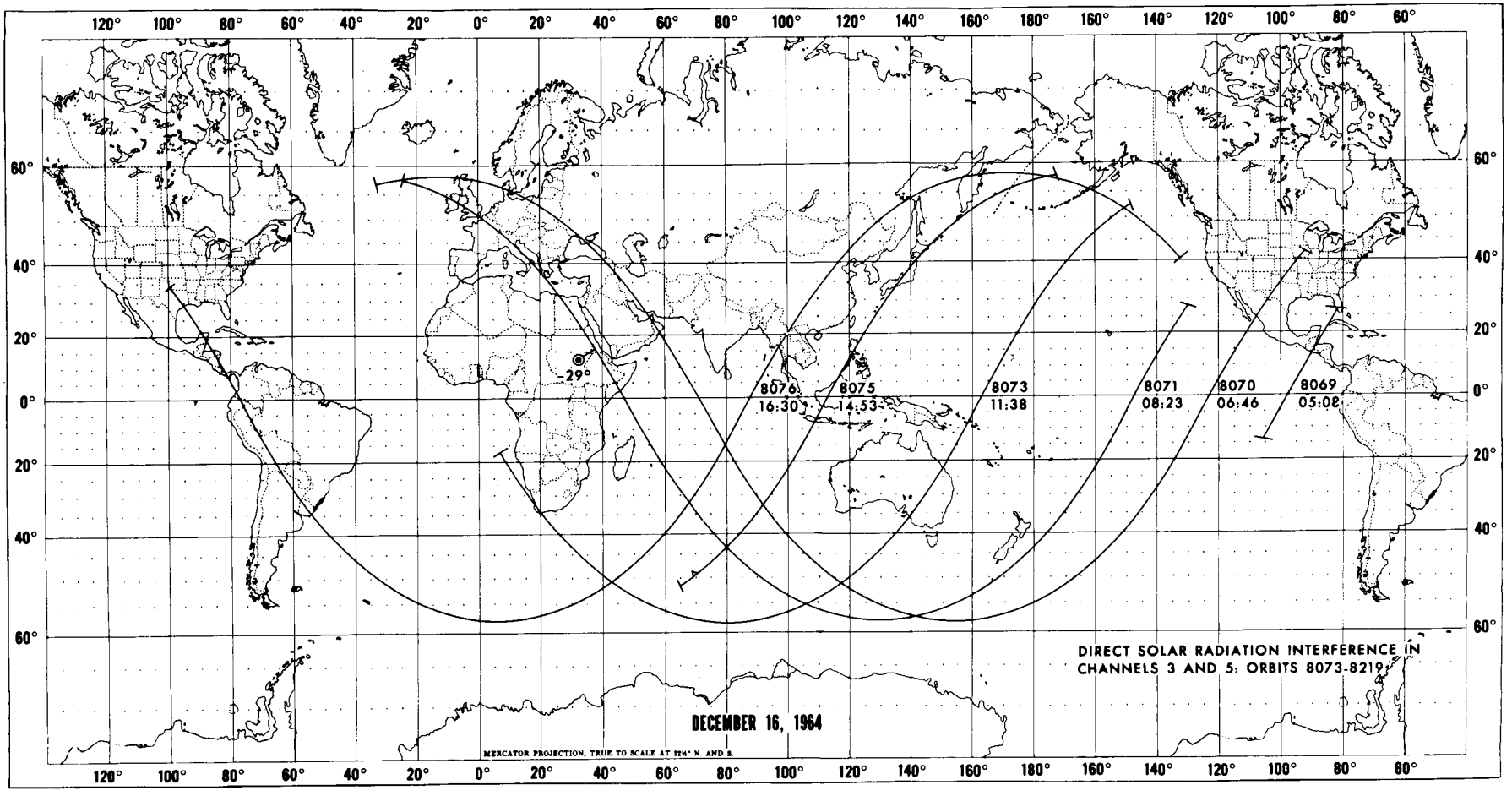
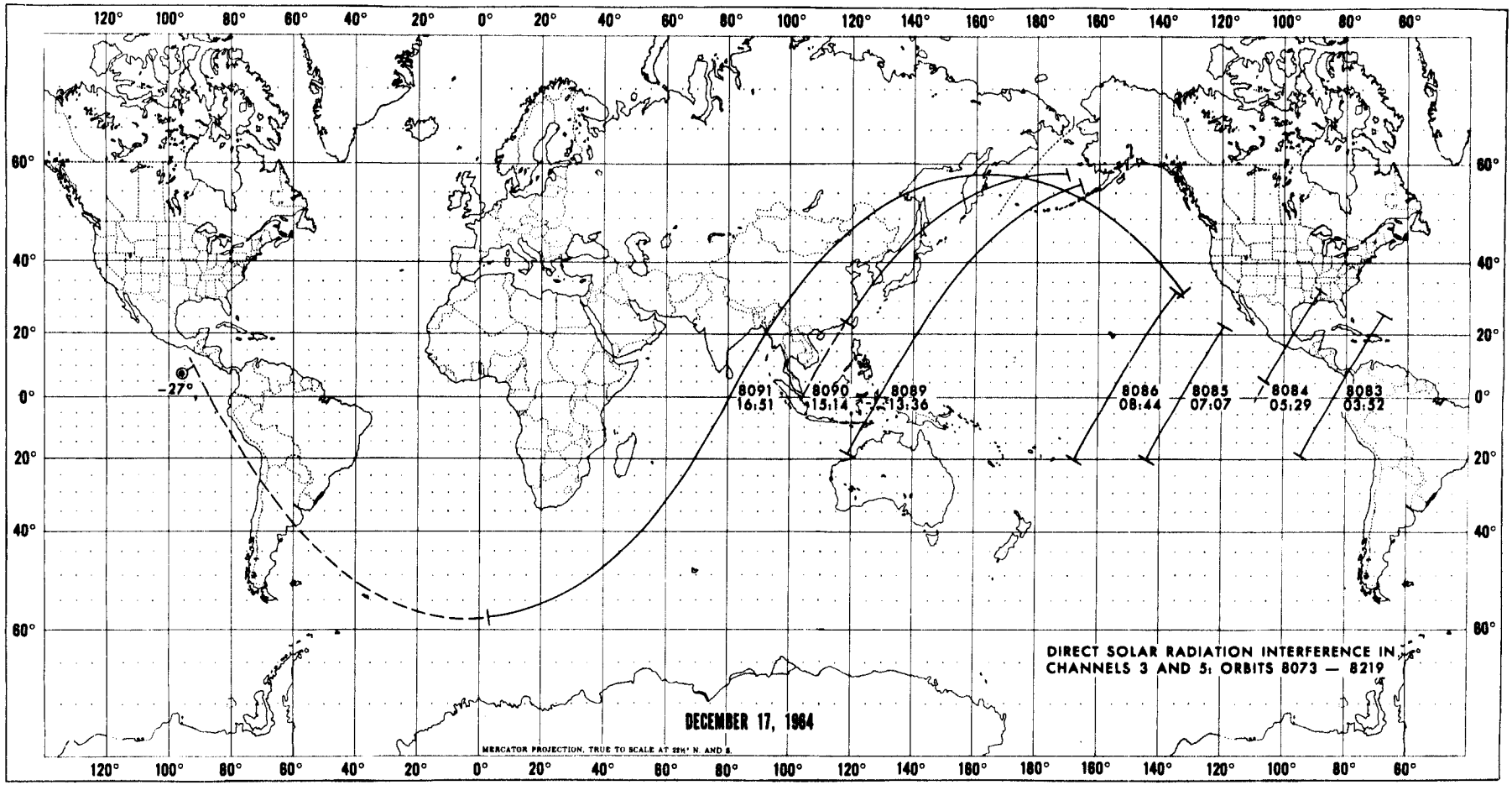
80°
40°
20°
0°
20°
40°
80°
-30°
8062
17:46
8059
12:54
DECEMBER 15, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 30° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
29°
8076
16:30
8075
14:53
8073
11:38
8071
08:23
8070
06:46
8069
05:08
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5: ORBITS 8073-8219
DECEMBER 16, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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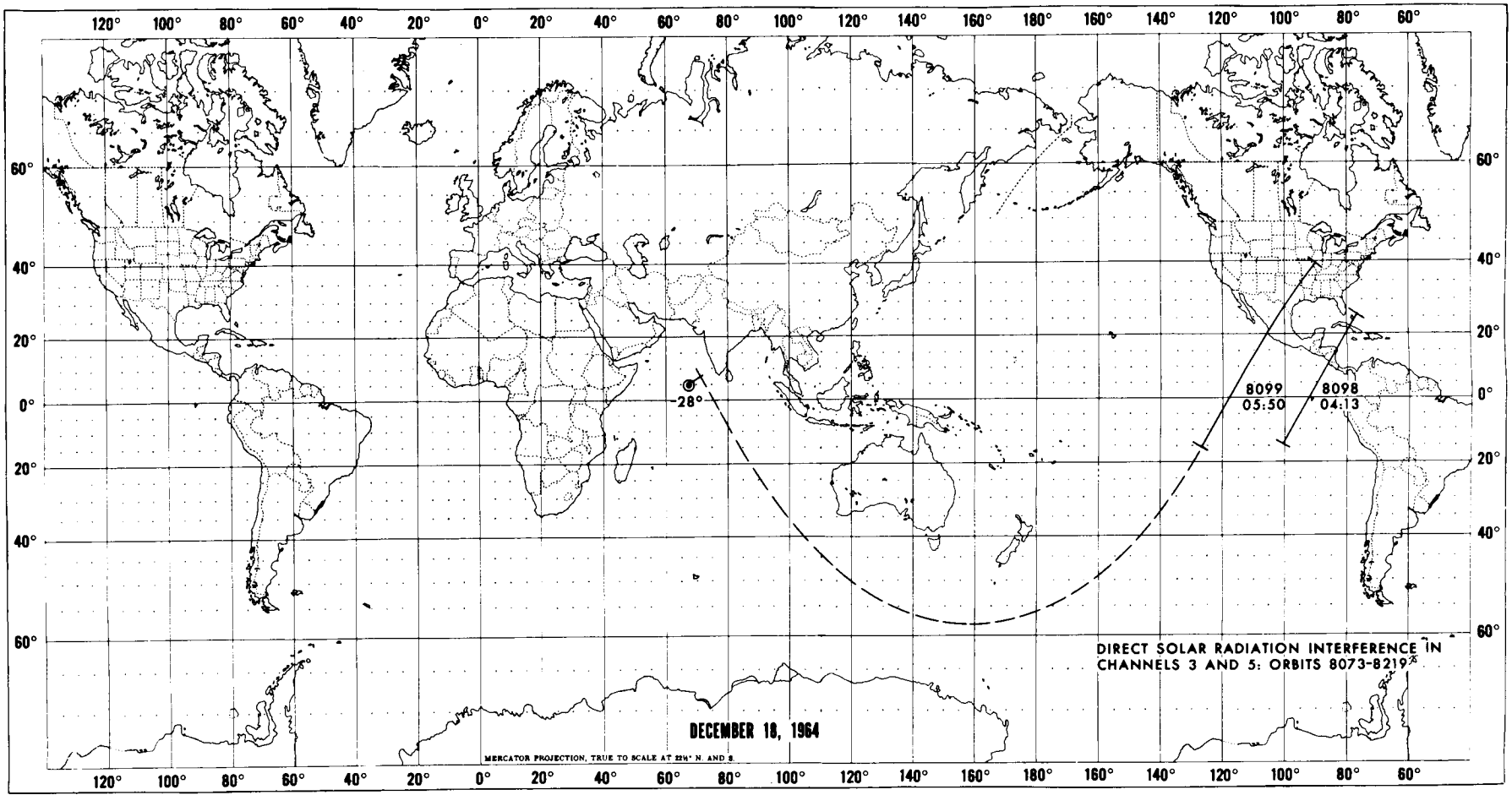
60°
40°
20°
0°
20°
40°
60°
-27°
8091
16:51
8090
15:14
8089
13:36
8086
08:44
8085
07:07
8084
05:29
8083
03:52
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5; ORBITS 8073 — 8219
DECEMBER 17, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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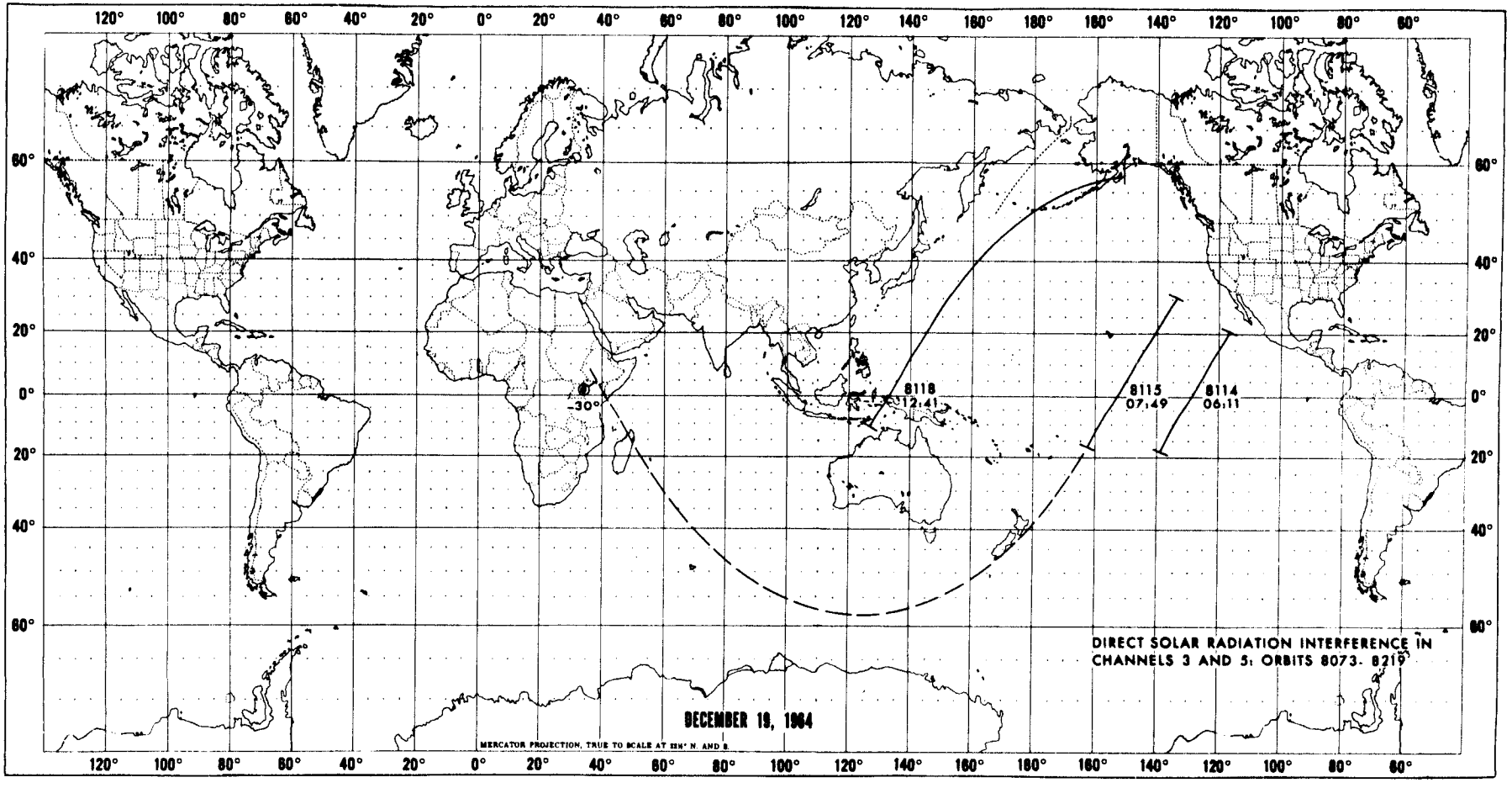
60°
40°
20°
0°
20°
40°
60°
-28°
8099
05:50
8098
04:13
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5: ORBITS 8073-8219
DECEMBER 18, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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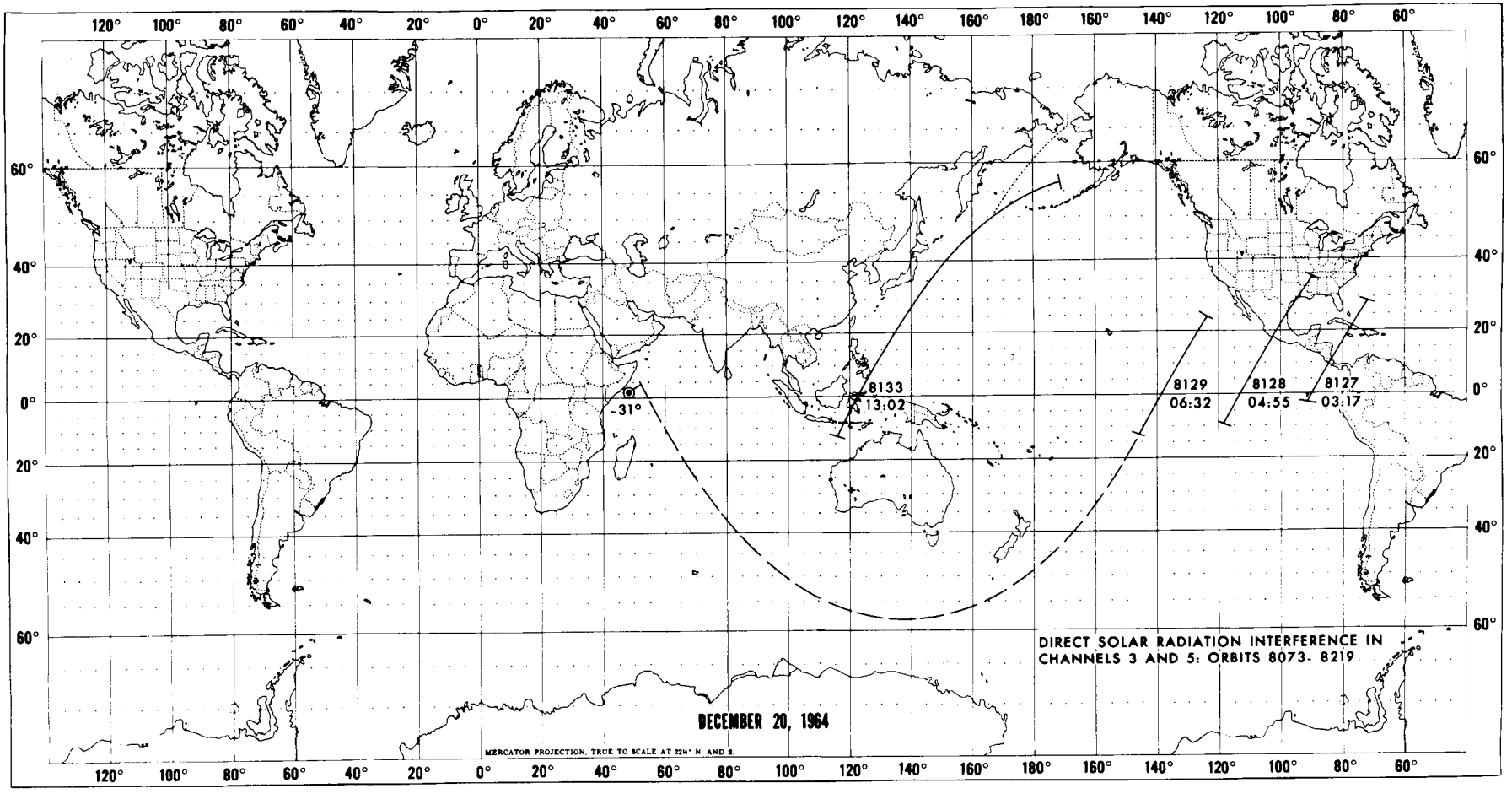
60°
40°
20°
0°
20°
40°
60°
8118
12:41
8115
07:49
8114
06:11
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5; ORBITS 8073- 8219
DECEMBER 19, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 33½° N. AND S.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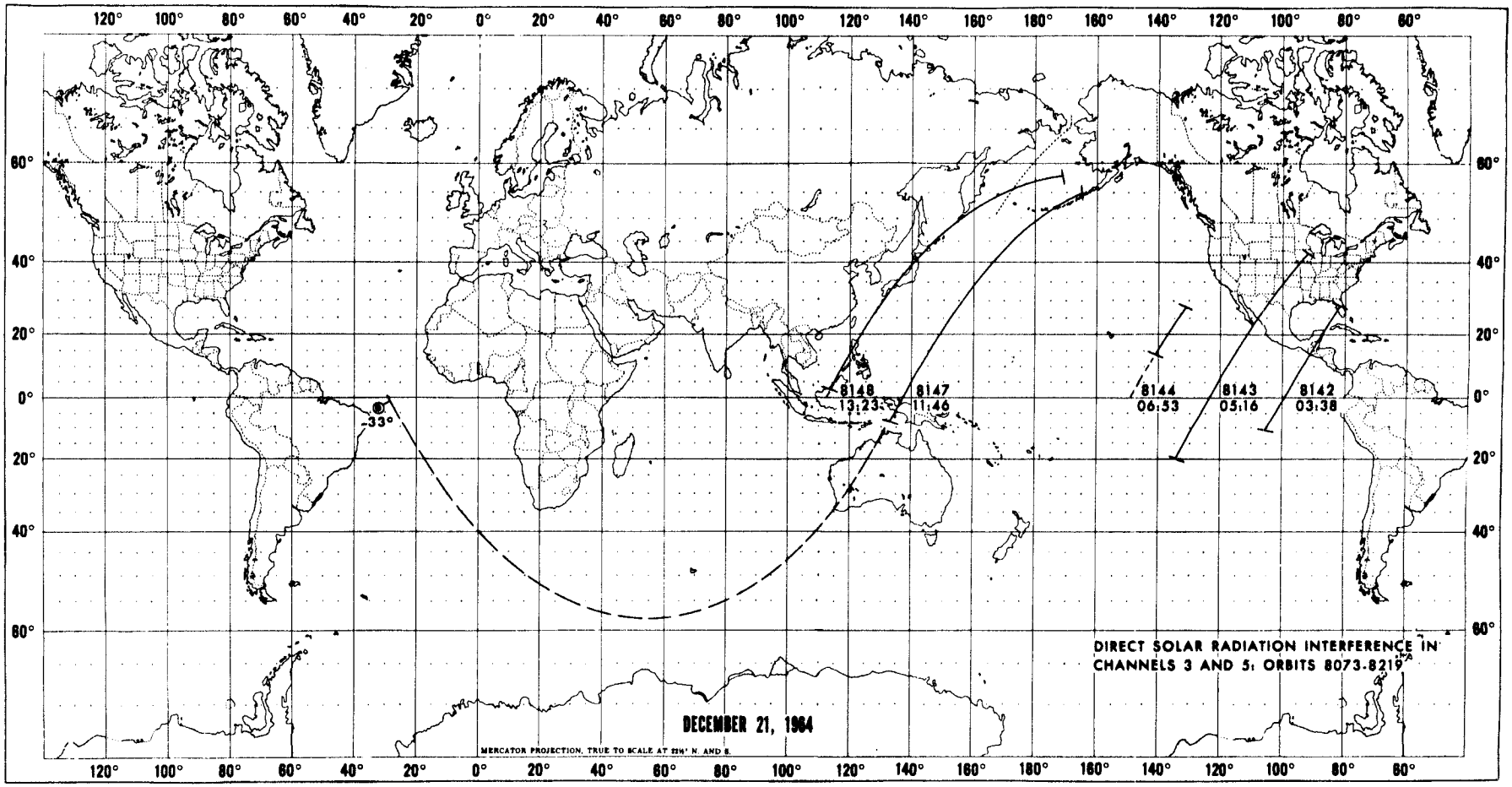
60°
40°
20°
0°
20°
40°
60°
8133
13:02
-31°
8129
06:32
8128
04:55
8127
03:17
DIRECT SOLAR RADIATION INTERFERENCE IN
CHANNELS 3 AND 5: ORBITS 8073- 8219
DECEMBER 20, 1964
MERCATOR PROJECTION. TRUE TO SCALE AT 22½° N. AND S.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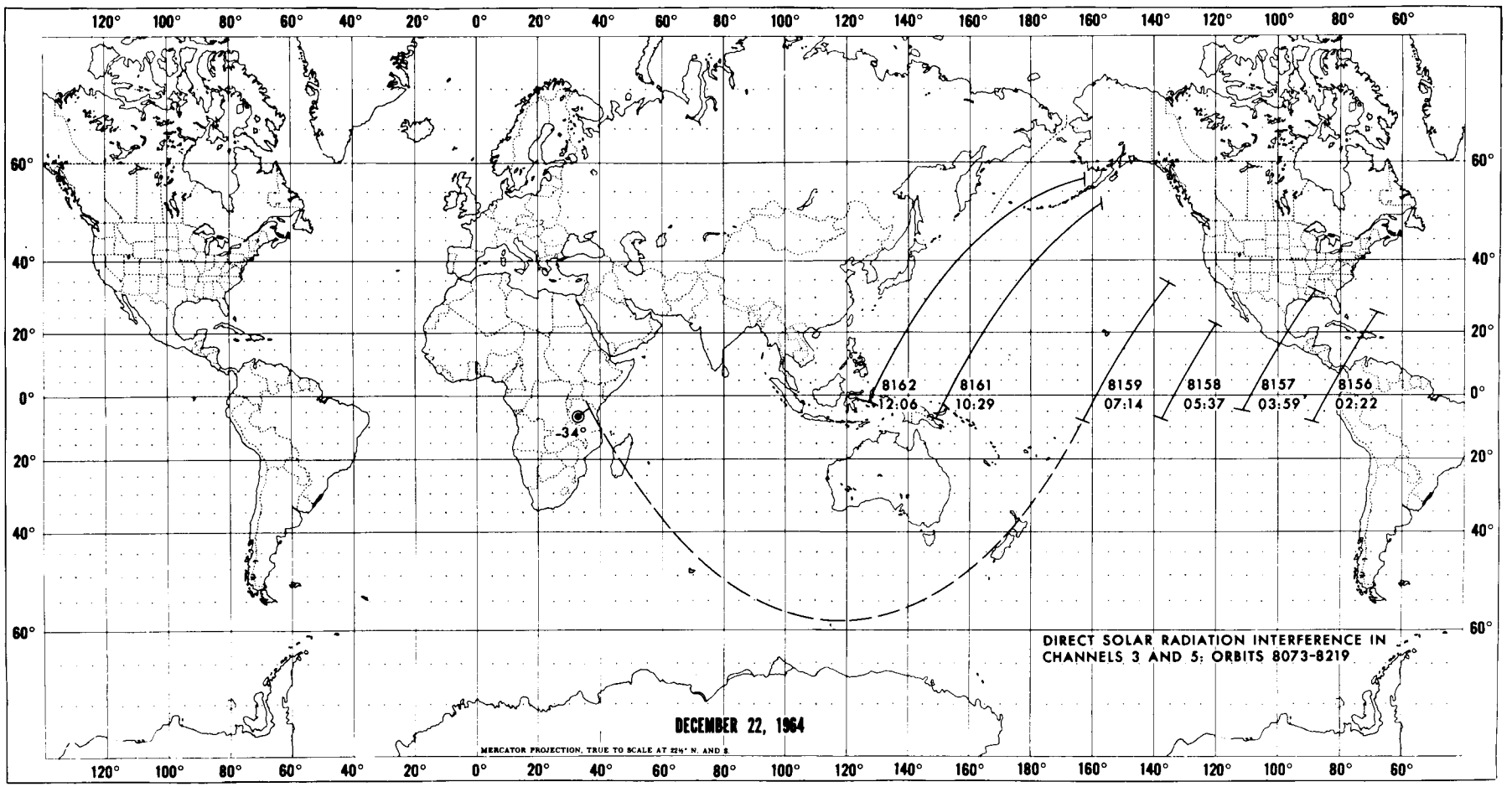
60°
40°
20°
0°
20°
40°
60°
-33°
8148
13:23
8147
11:46
8144
06:53
8143
05:16
8142
03:38
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5; ORBITS 8073-8219
DECEMBER 21, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 11½° N. AND S.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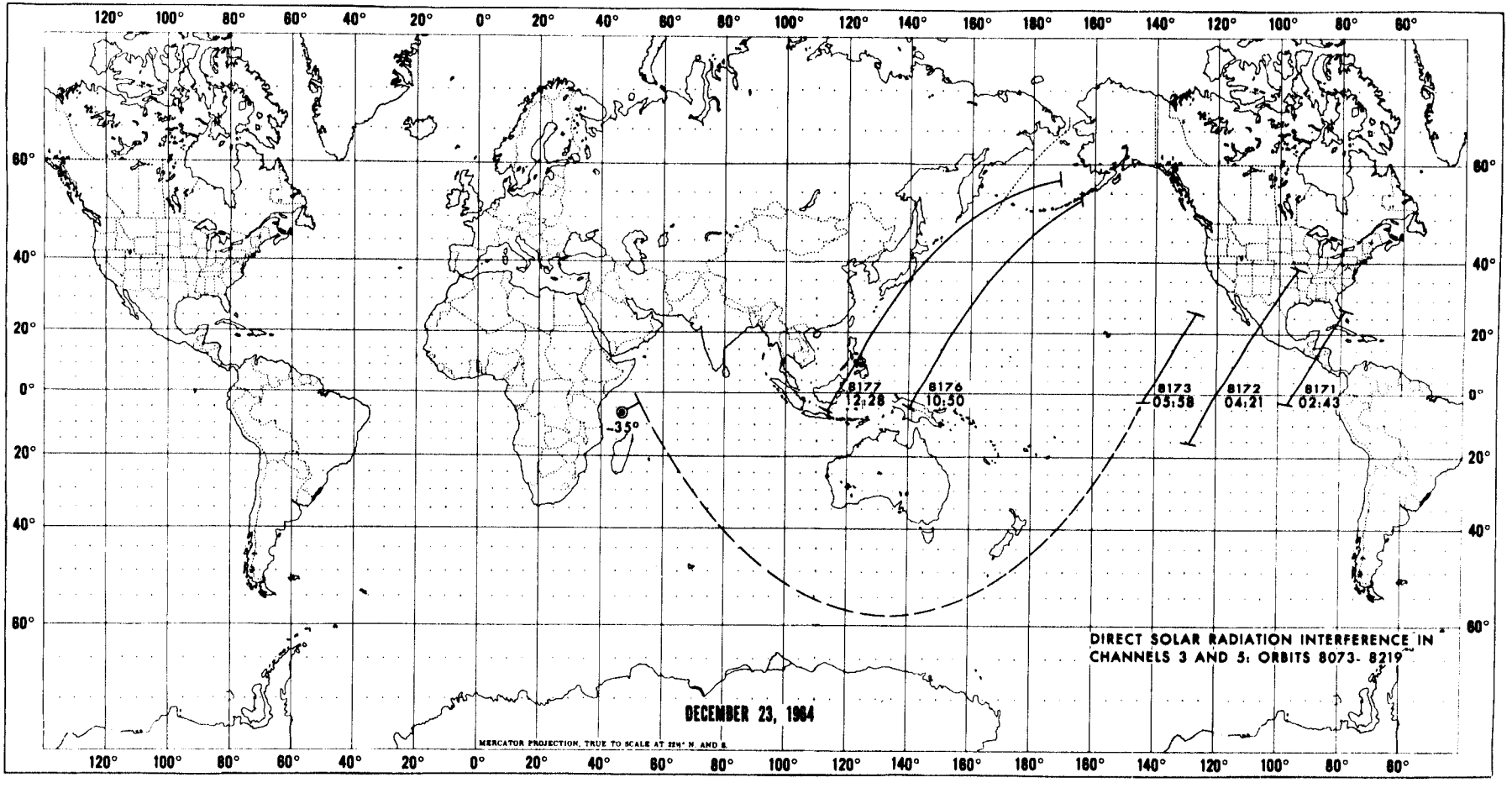
60°
40°
20°
0°
20°
40°
60°
8162
12:06
8161
10:29
8159
07:14
8158
05:37
8157
03:59
8156
02:22
-34°
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5; ORBITS 8073-8219
DECEMBER 22, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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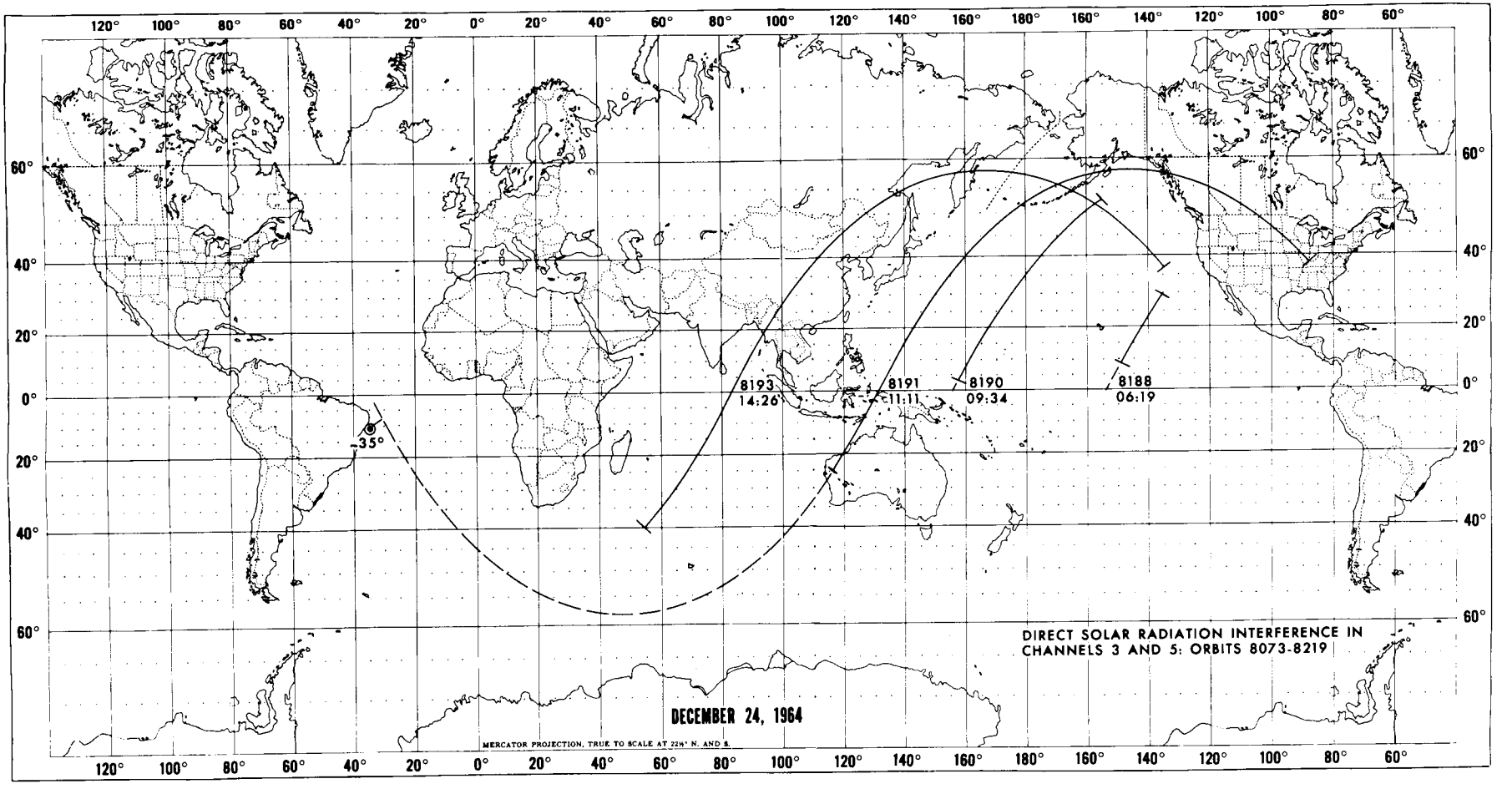
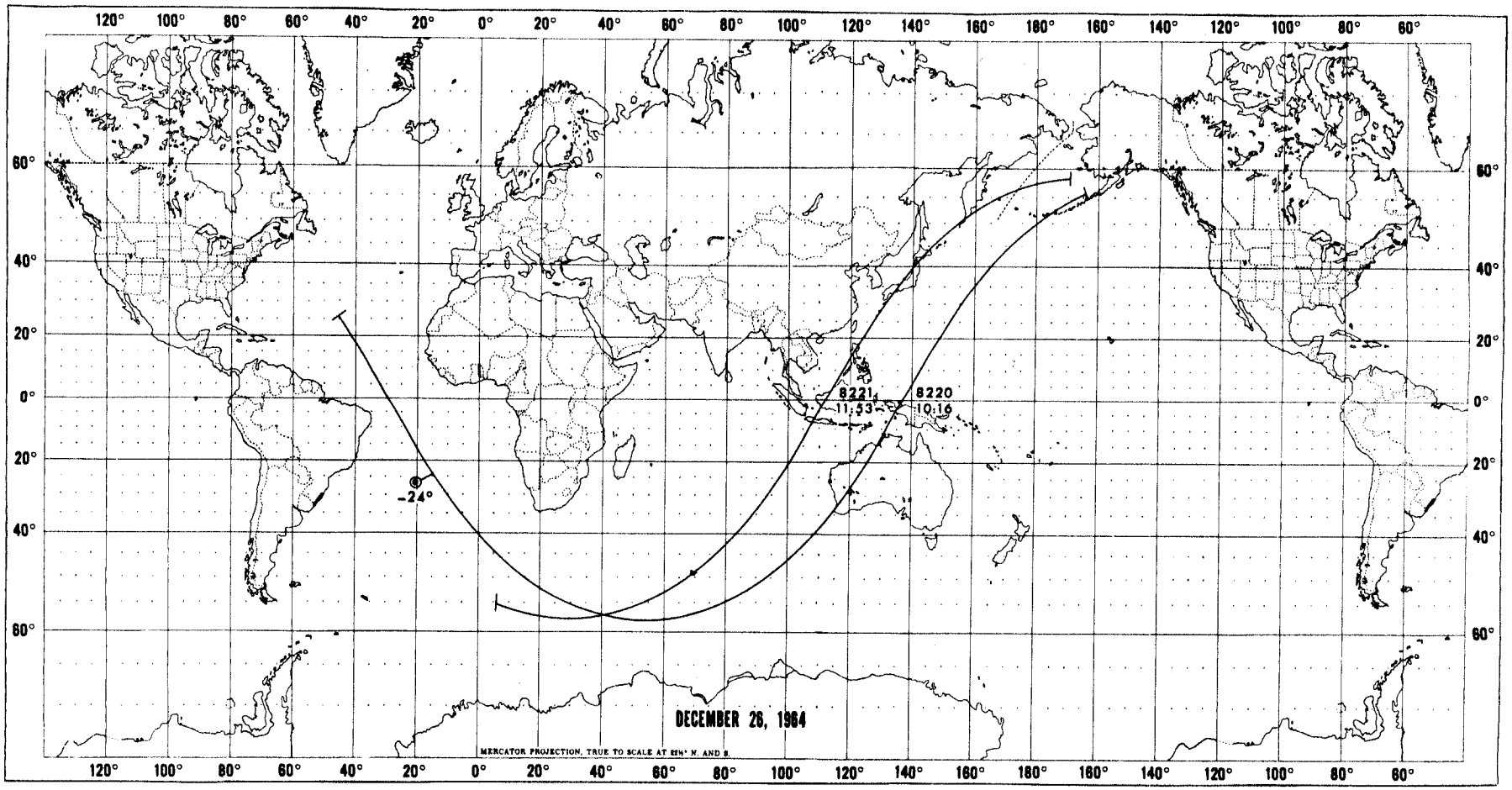
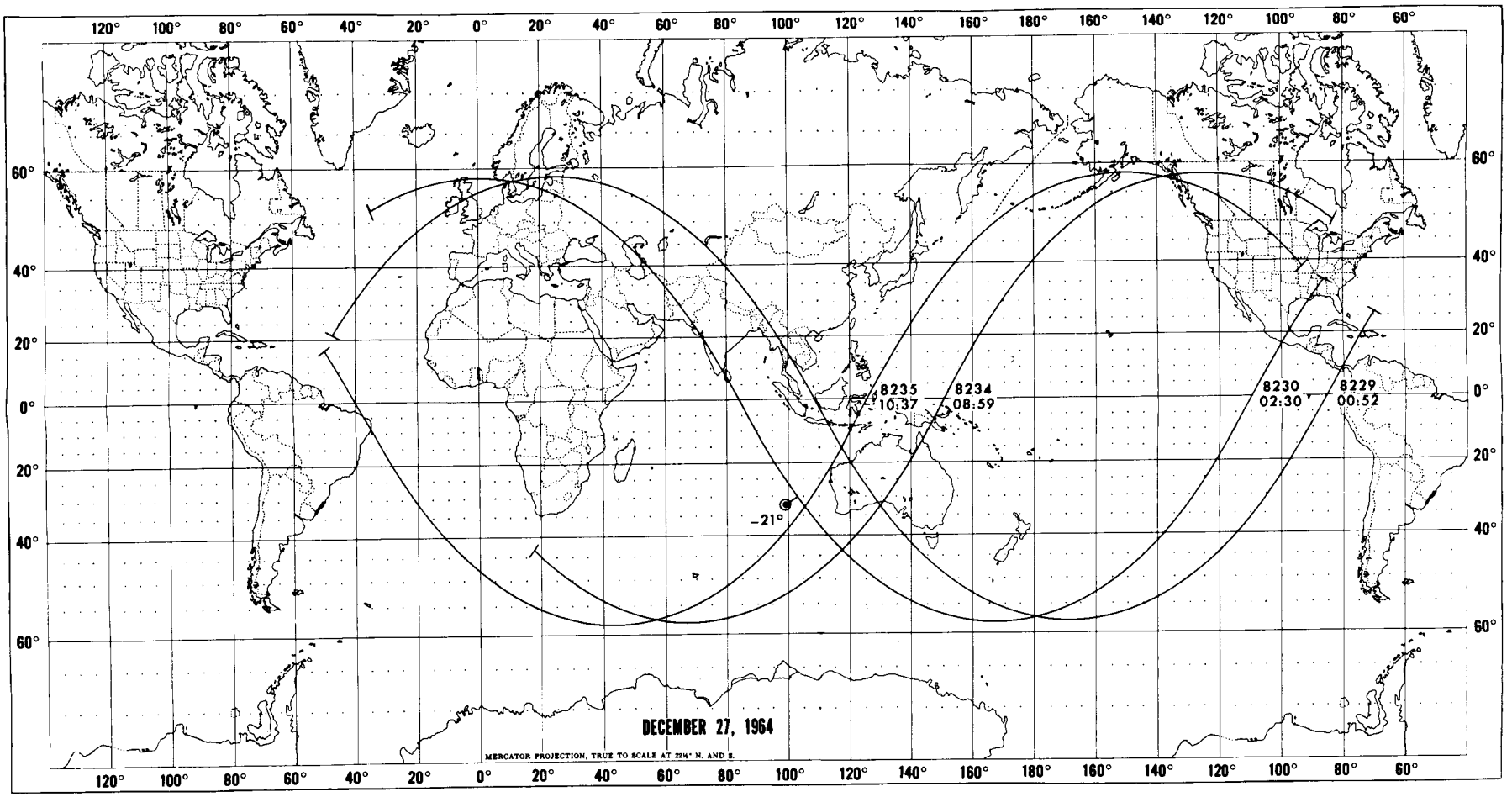
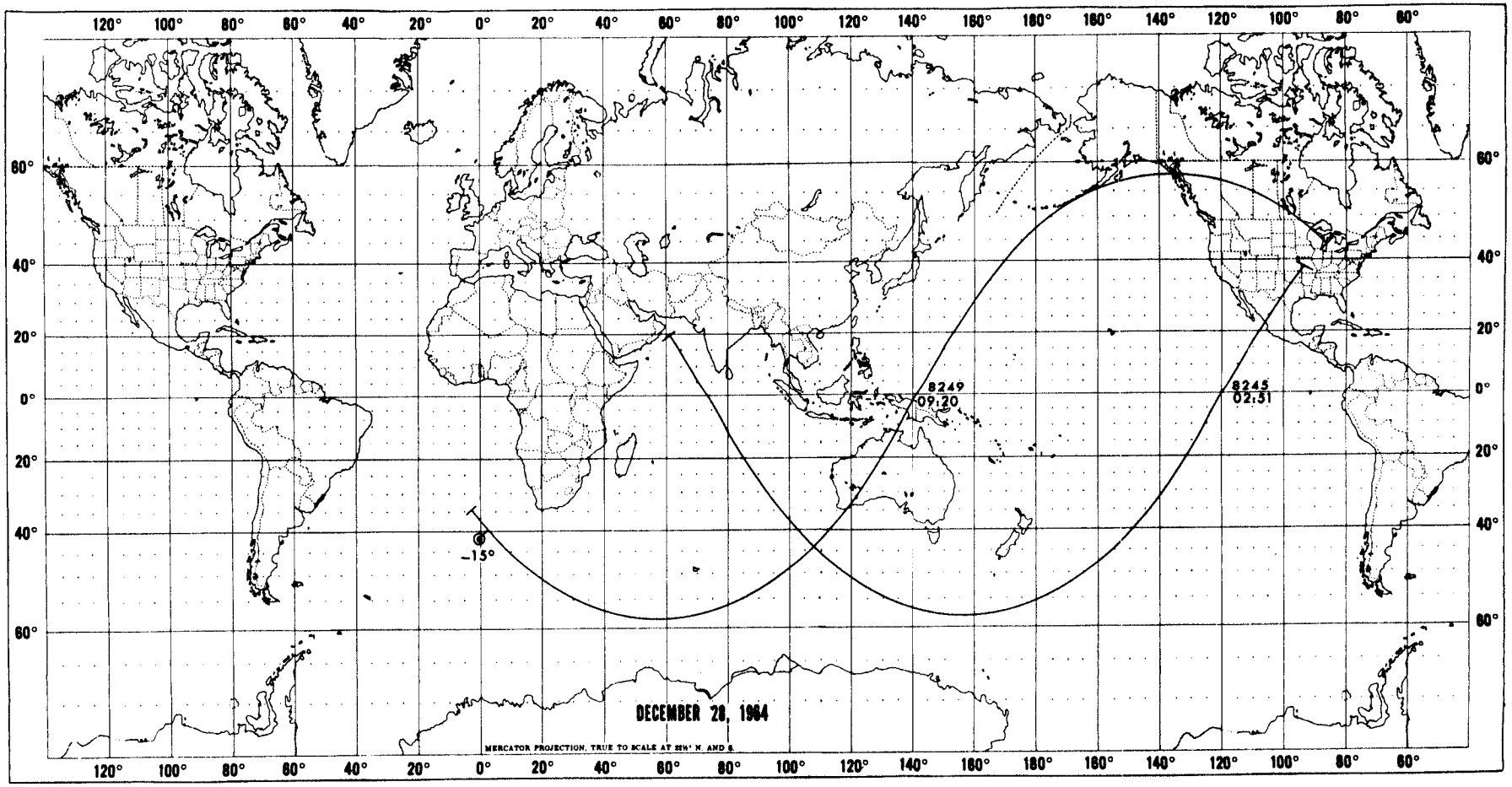
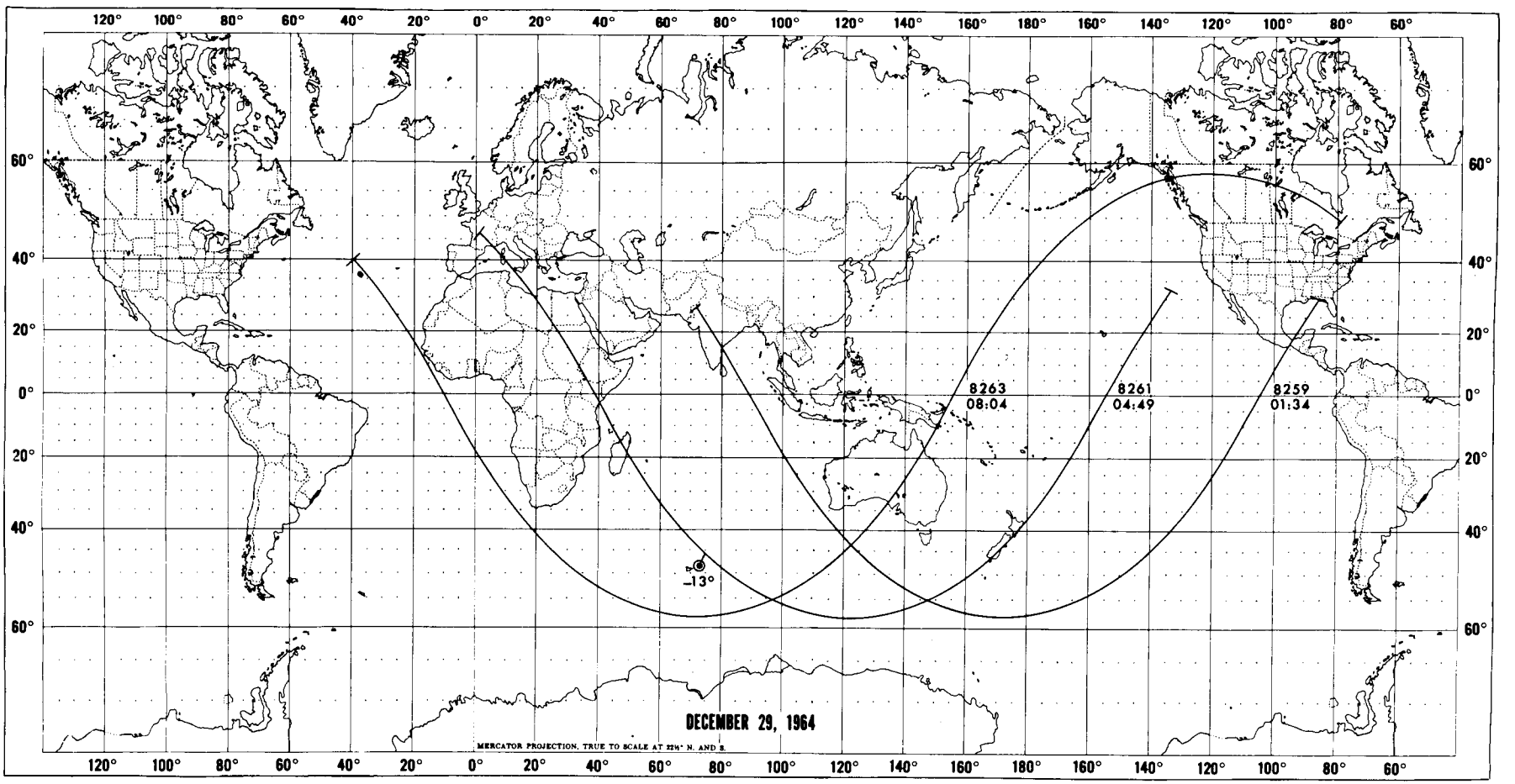
80°
40°
20°
0°
20°
40°
80°
8177
12:28
8176
10:50
8173
05:58
8172
04:21
8171
02:43
-35°
DECEMBER 23, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.
DIRECT SOLAR RADIATION INTERFERENCE IN
CHANNELS 3 AND 5: ORBITS 8073- 8219

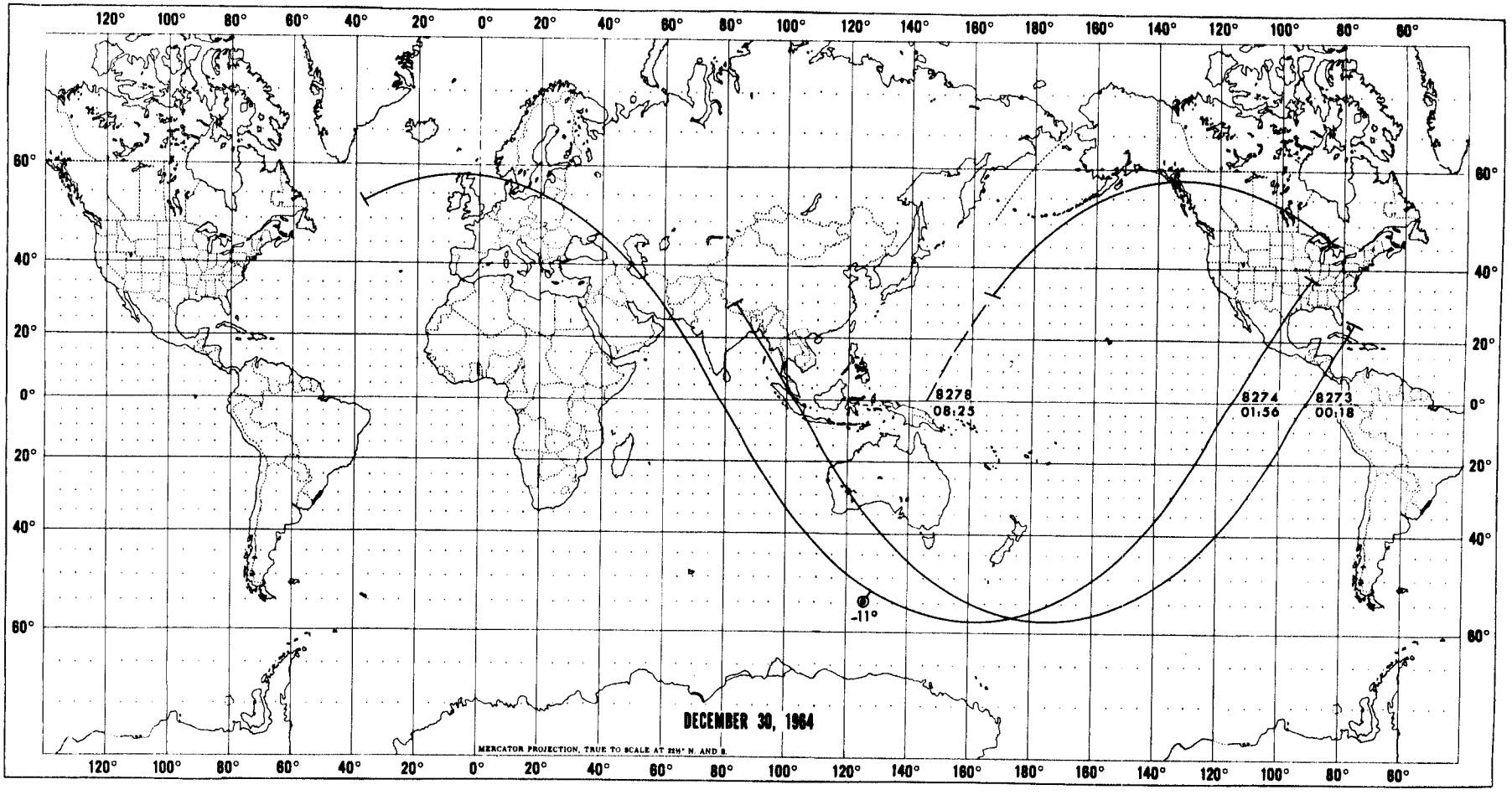

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
8193
14:26
8191
11:11
8190
09:34
8188
06:19
35°
DIRECT SOLAR RADIATION INTERFERENCE IN
CHANNELS 3 AND 5: ORBITS 8073-8219
DECEMBER 24, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

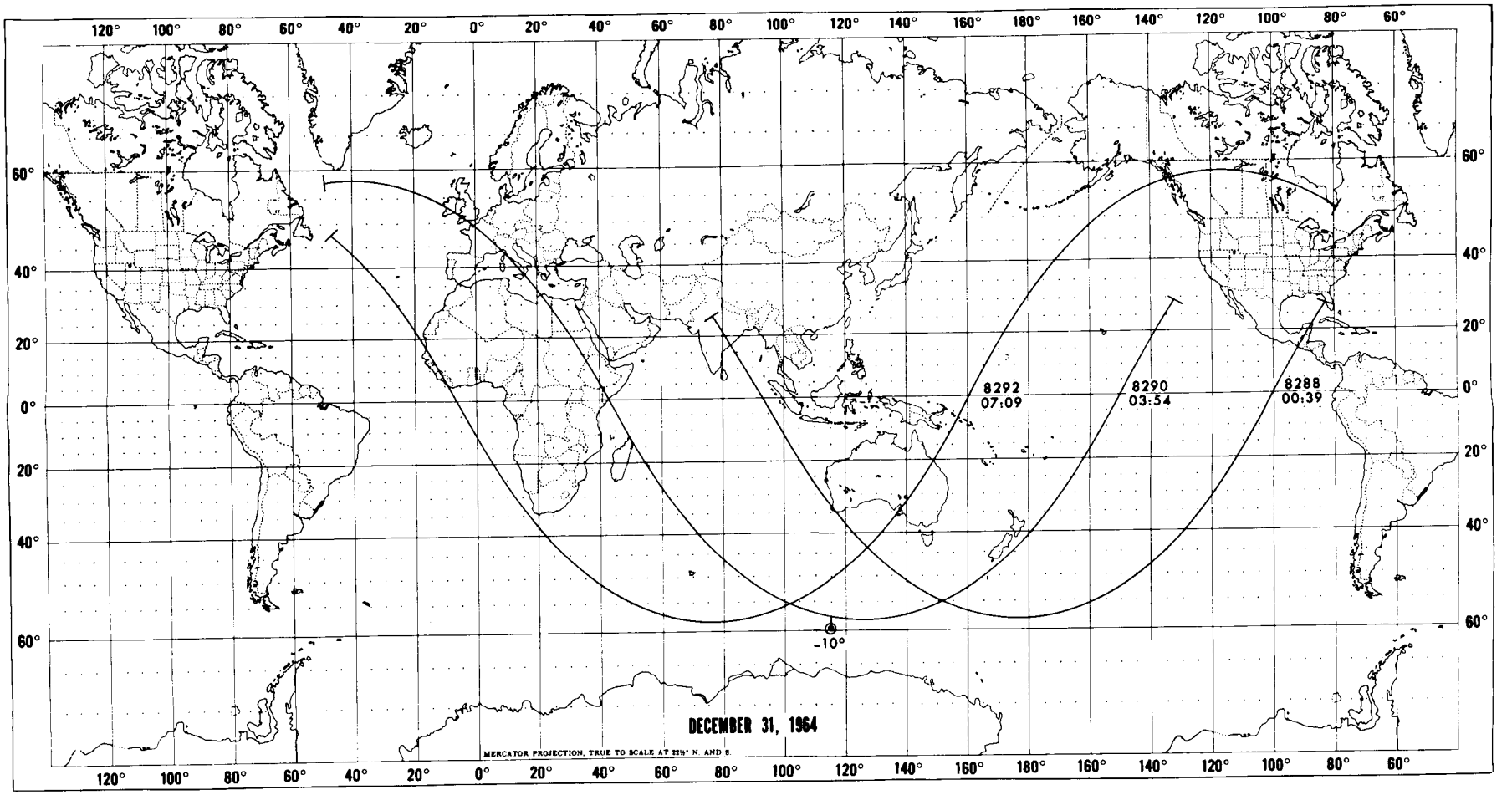

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
8221
11:53
8220
10:16
-24°
DECEMBER 26, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
8235
10:37
8234
08:59
8230
02:30
8229
00:52
-21°
DECEMBER 27, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
8249
09:20
8245
02:51
-15°
DECEMBER 28, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 28½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
8263
08:04
8261
04:49
8259
01:34
-13°
DECEMBER 29, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
8278
08:25
8274
01:56
8273
00:18
-11°
DECEMBER 30, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 25° N. AND S.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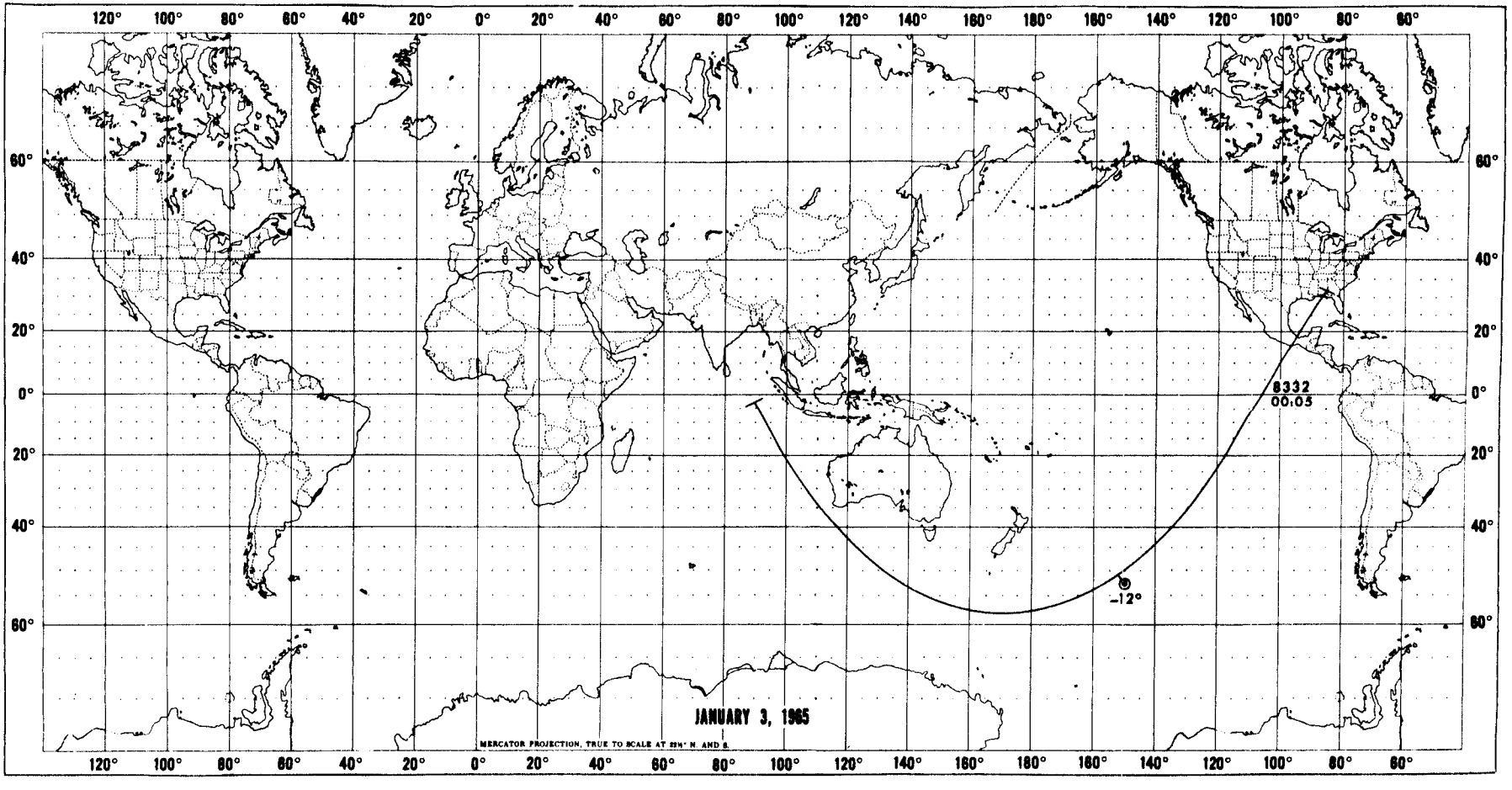
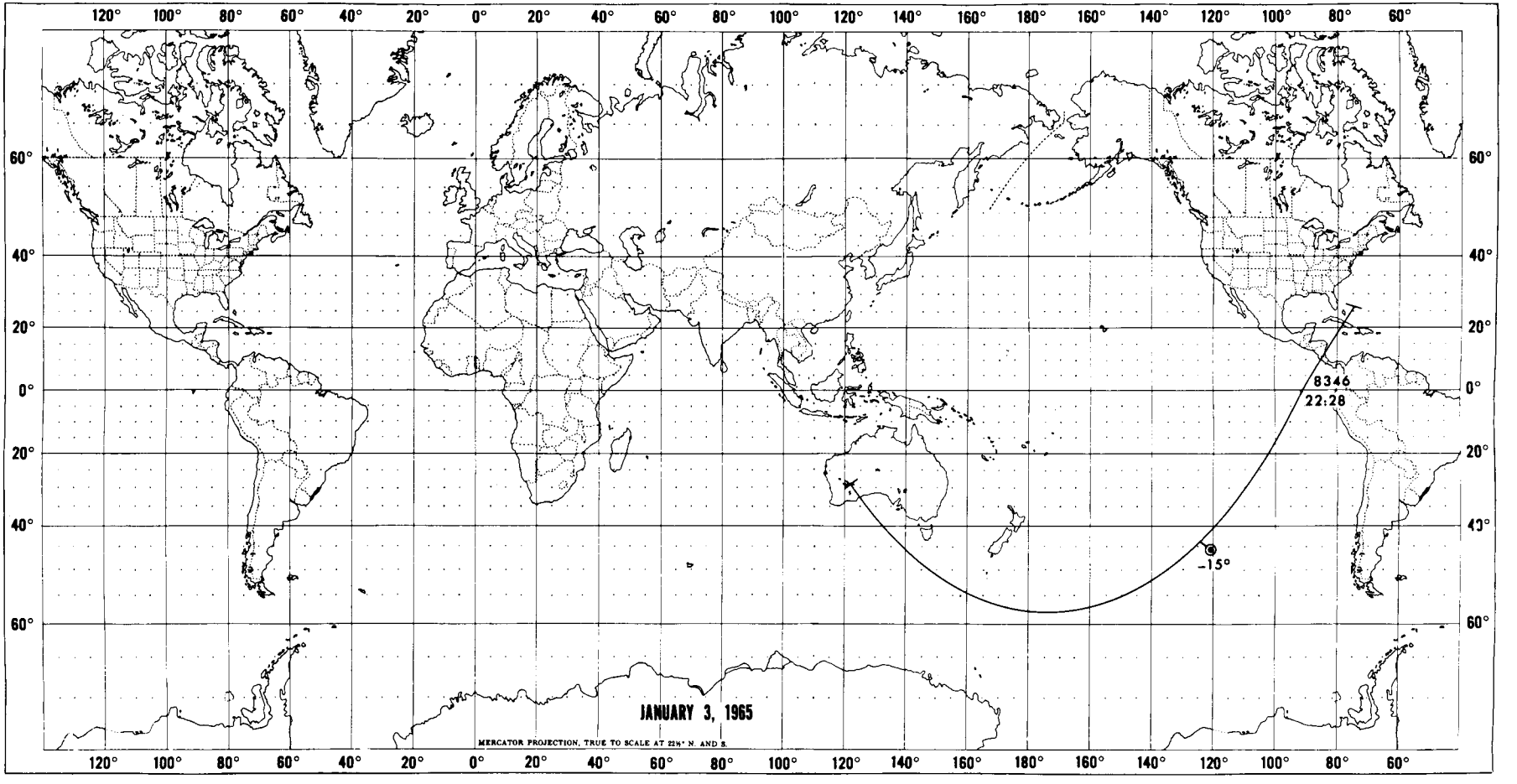
60°
40°
20°
0°
20°
40°
60°
8292
07:09
8290
03:54
8288
00:39
-10°
DECEMBER 31, 1964
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
8332
00.05
-12°
JANUARY 3, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 25½° N. AND S.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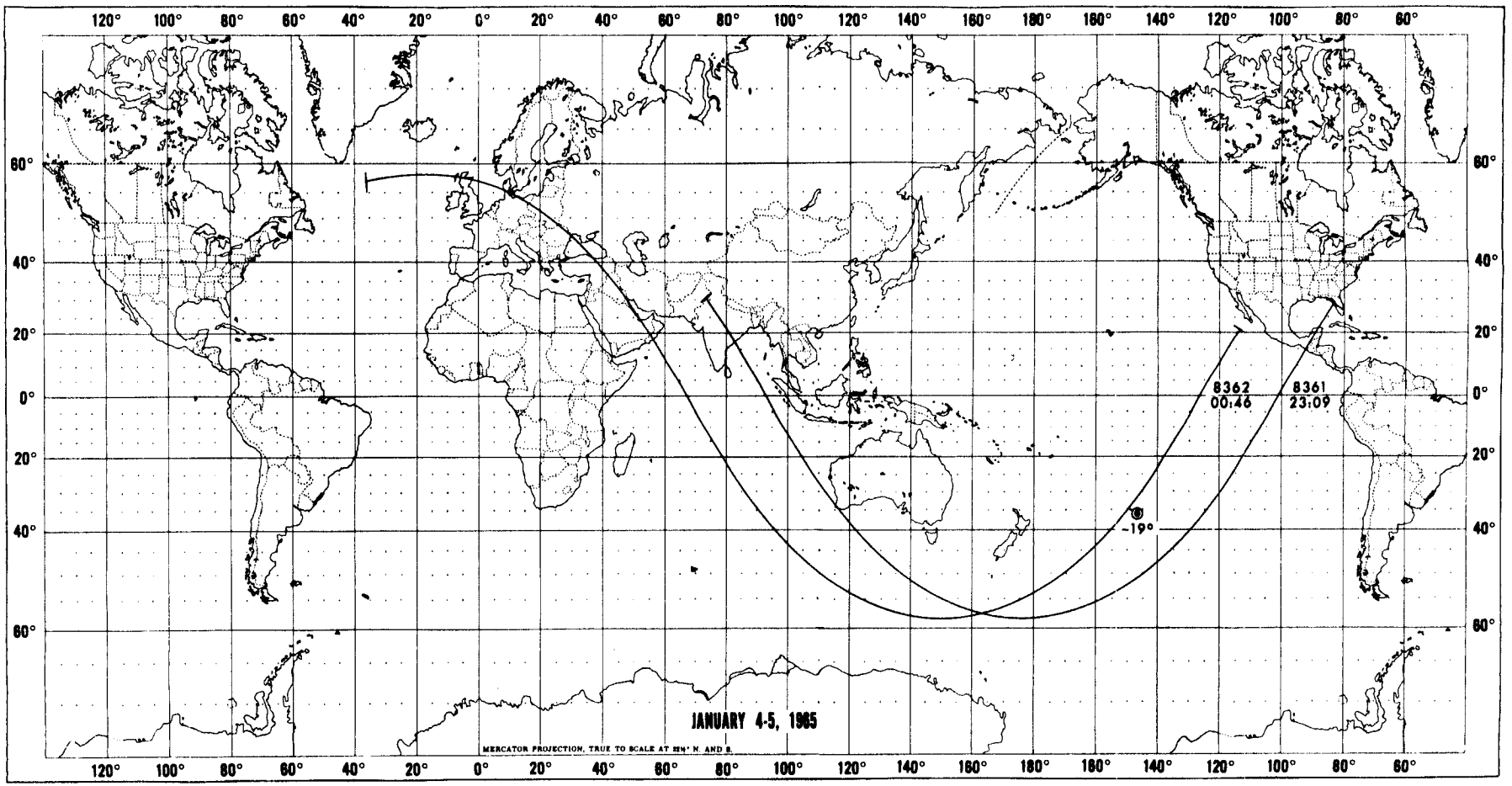
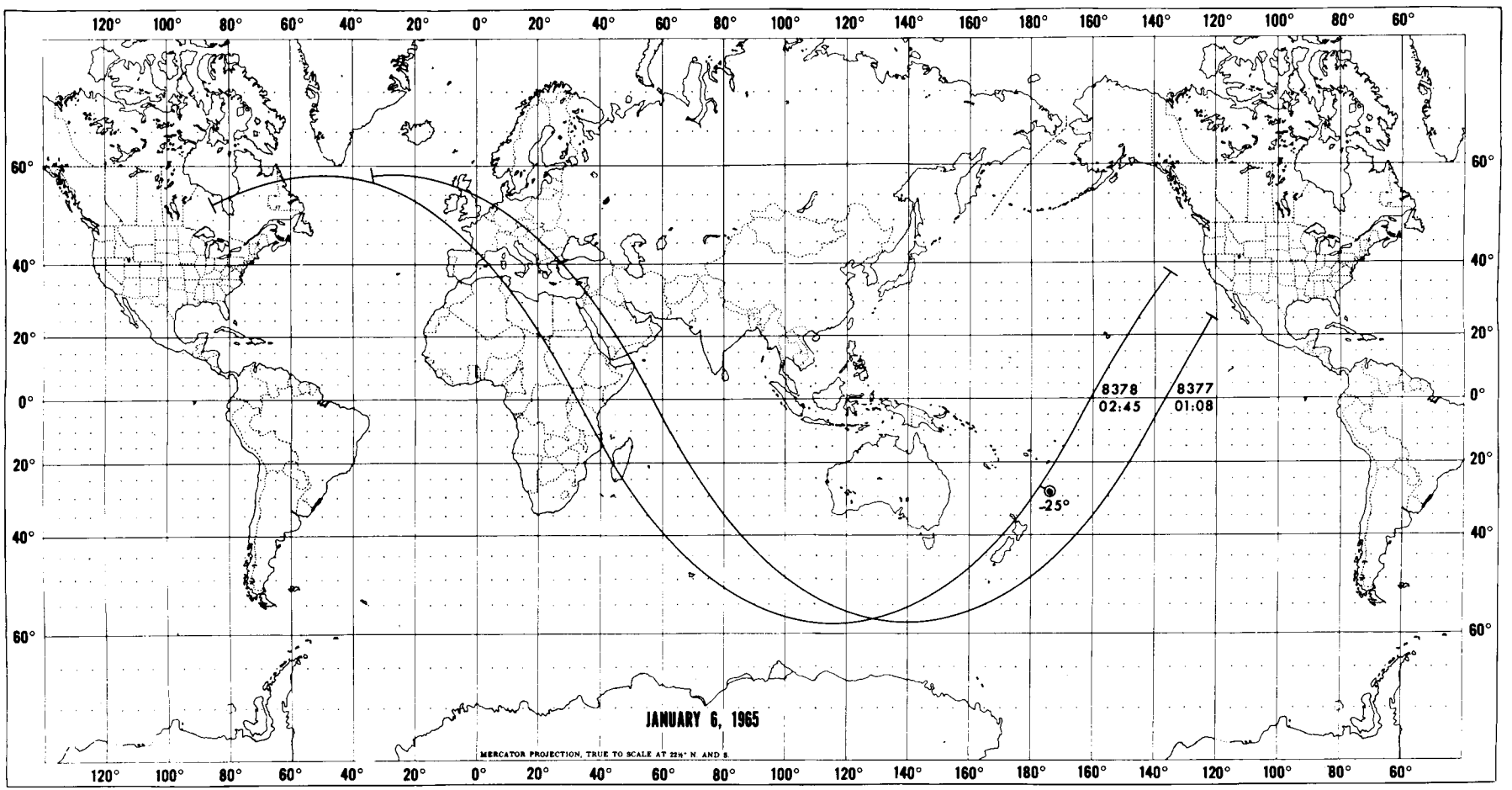
60°
40°
20°
0°
20°
40°
60°
8346
22:28
-15°
JANUARY 3, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
8362
00:46
8361
23:09
-19°
JANUARY 4-5, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 33½° N. AND S.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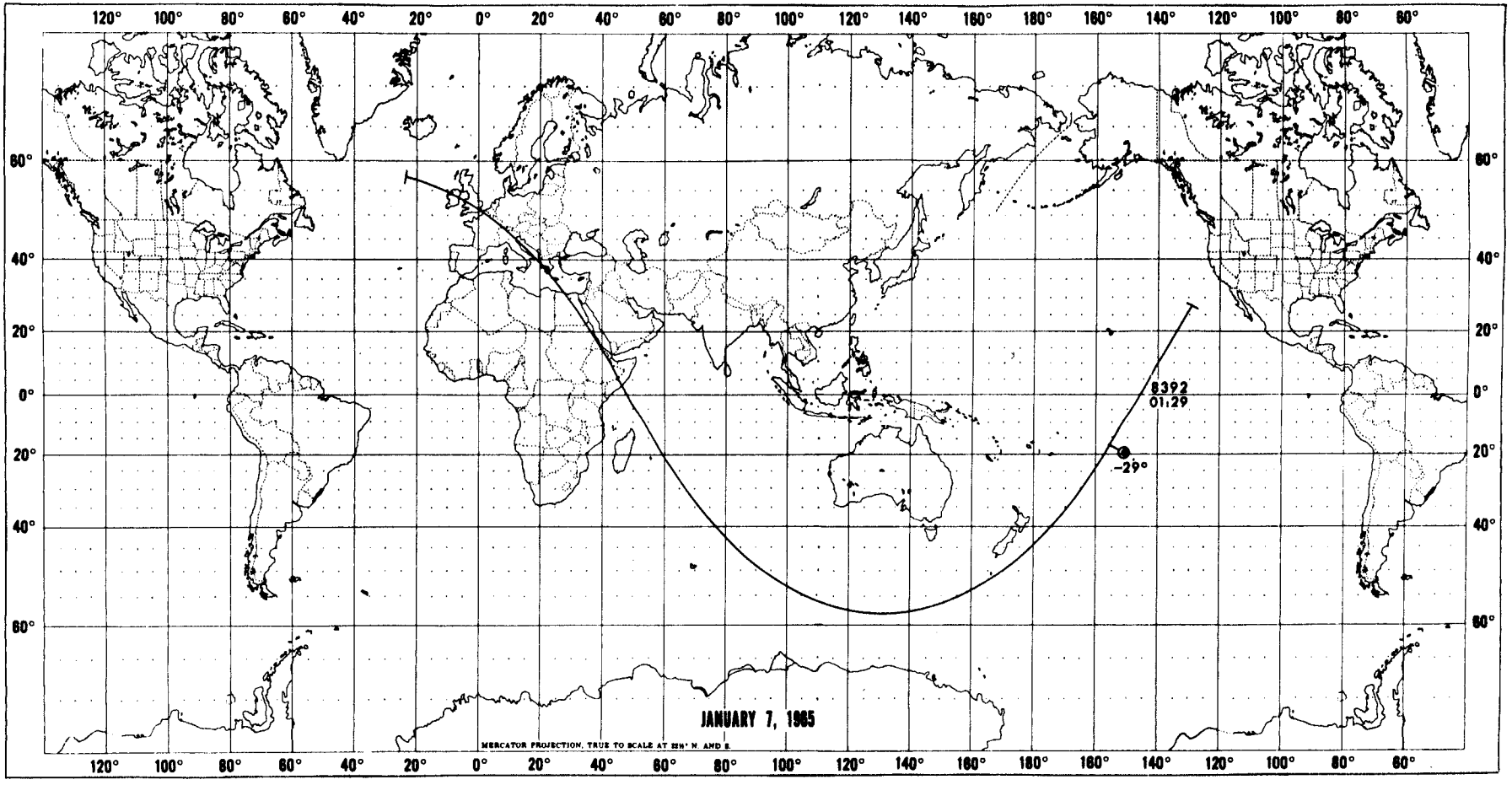
60°
40°
20°
0°
20°
40°
60°
8378
02:45
8377
01:08
-25°
JANUARY 6, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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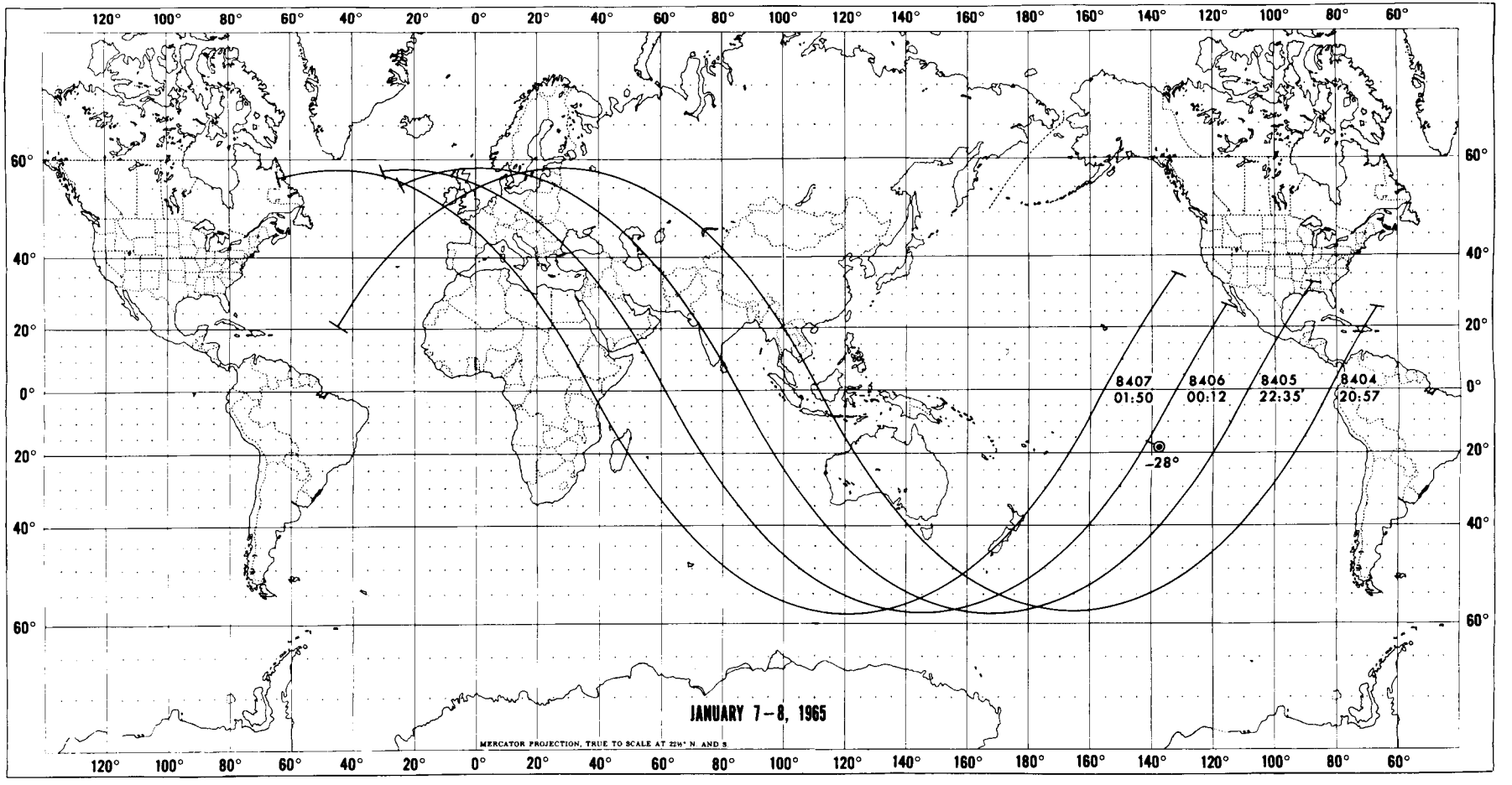
80°
40°
20°
0°
20°
40°
60°
8392
01:29
-29°
JANUARY 7, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 28½° N. AND S.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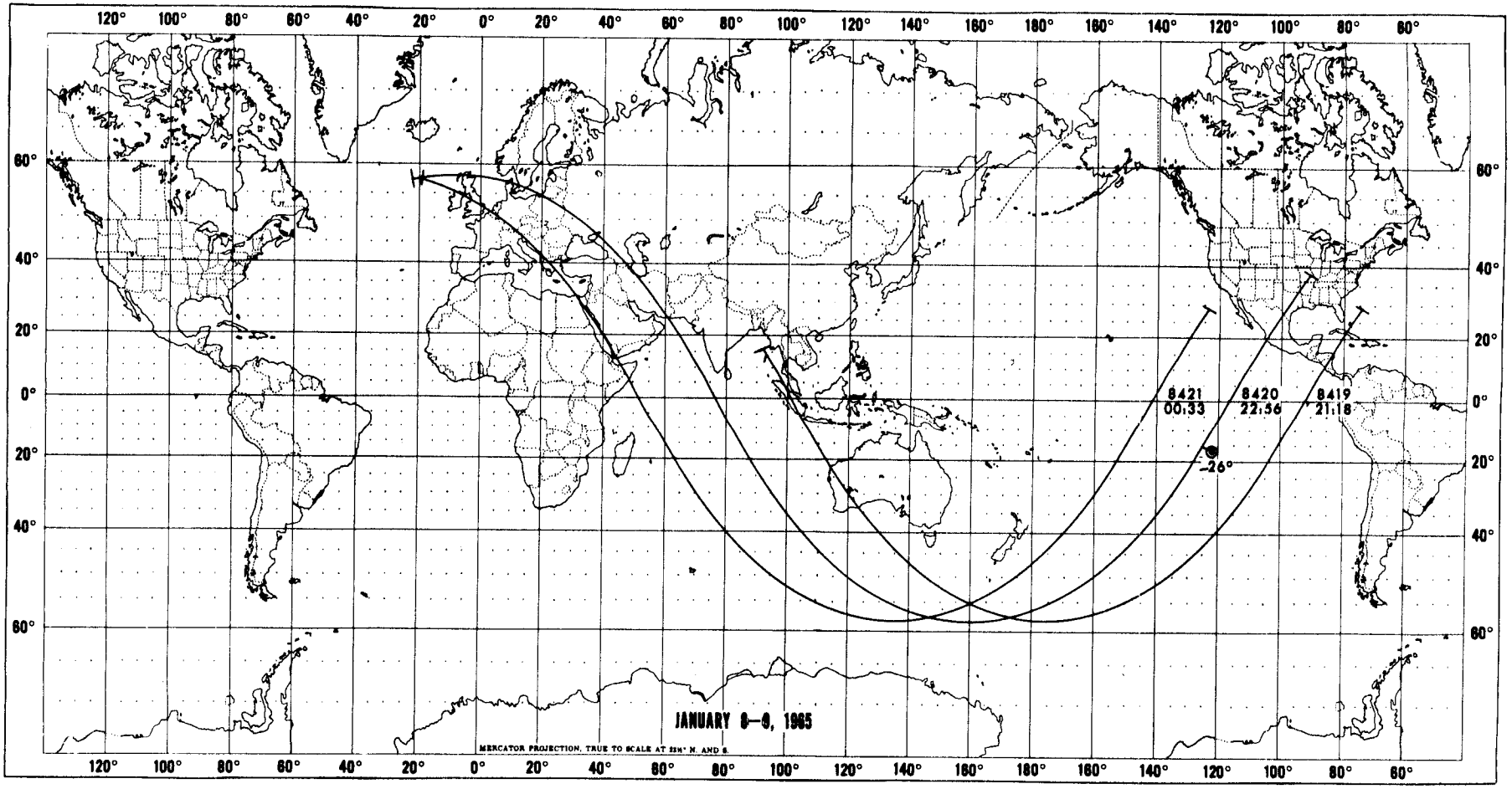
60°
40°
20°
0°
20°
40°
60°
8407
01:50
8406
00:12
8405
22:35
8404
20:57
-28°
JANUARY 7-8, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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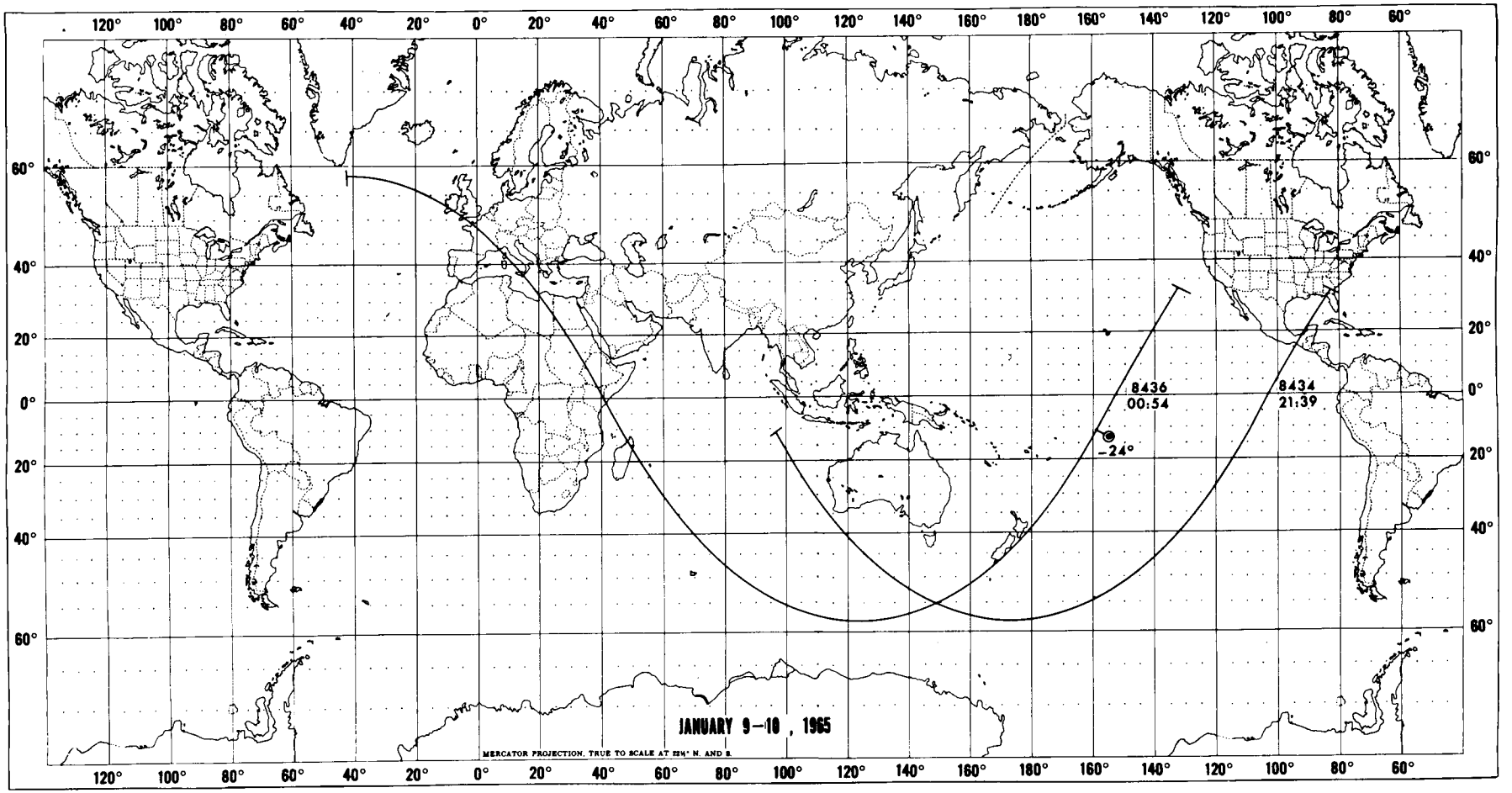
60°
40°
20°
0°
20°
40°
60°
8421
00:33
8420
22:56
8419
21:18
-26°
JANUARY 8—9, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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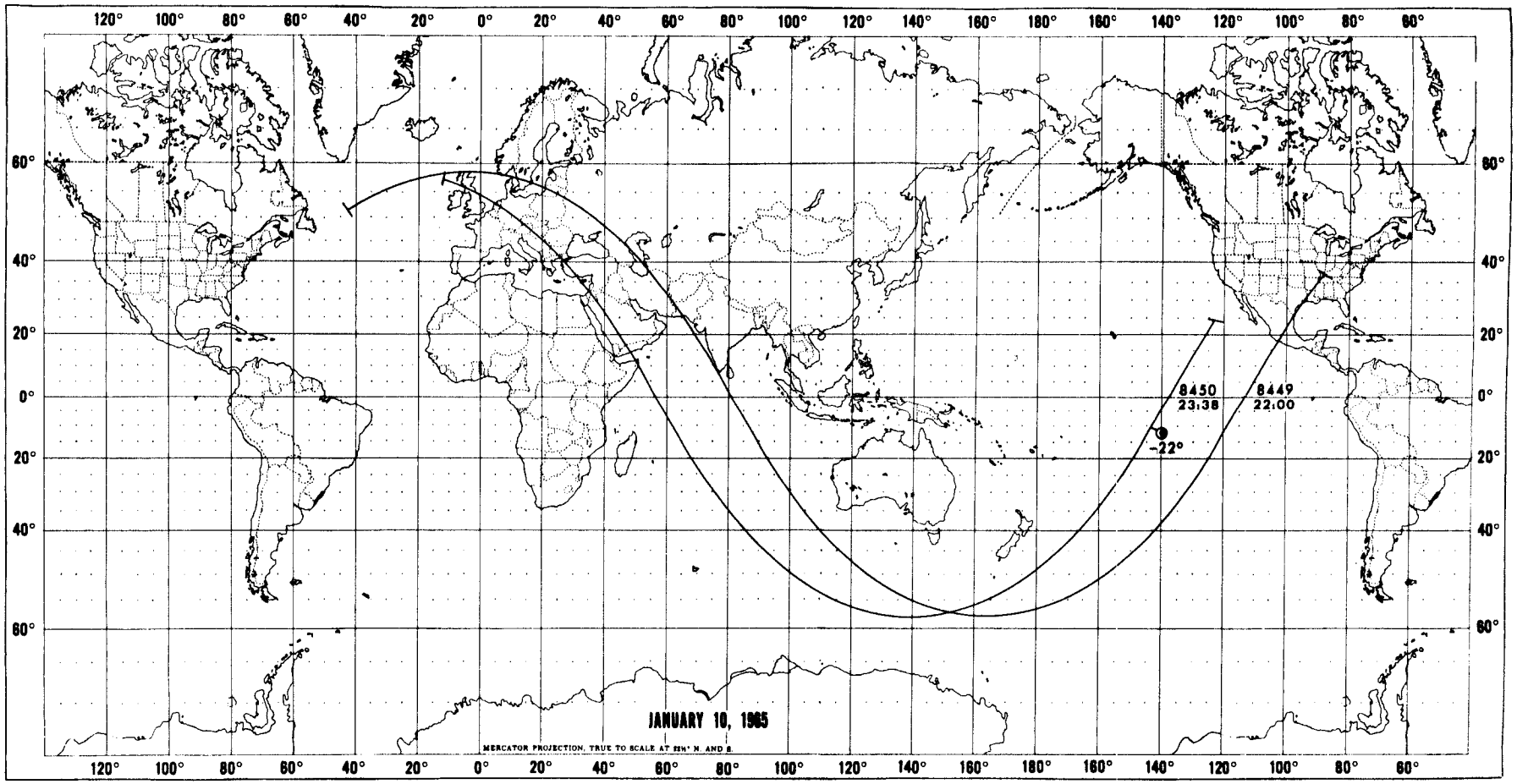
60°
40°
20°
0°
20°
40°
60°
8436
00:54
8434
21:39
-24°
JANUARY 9–10 , 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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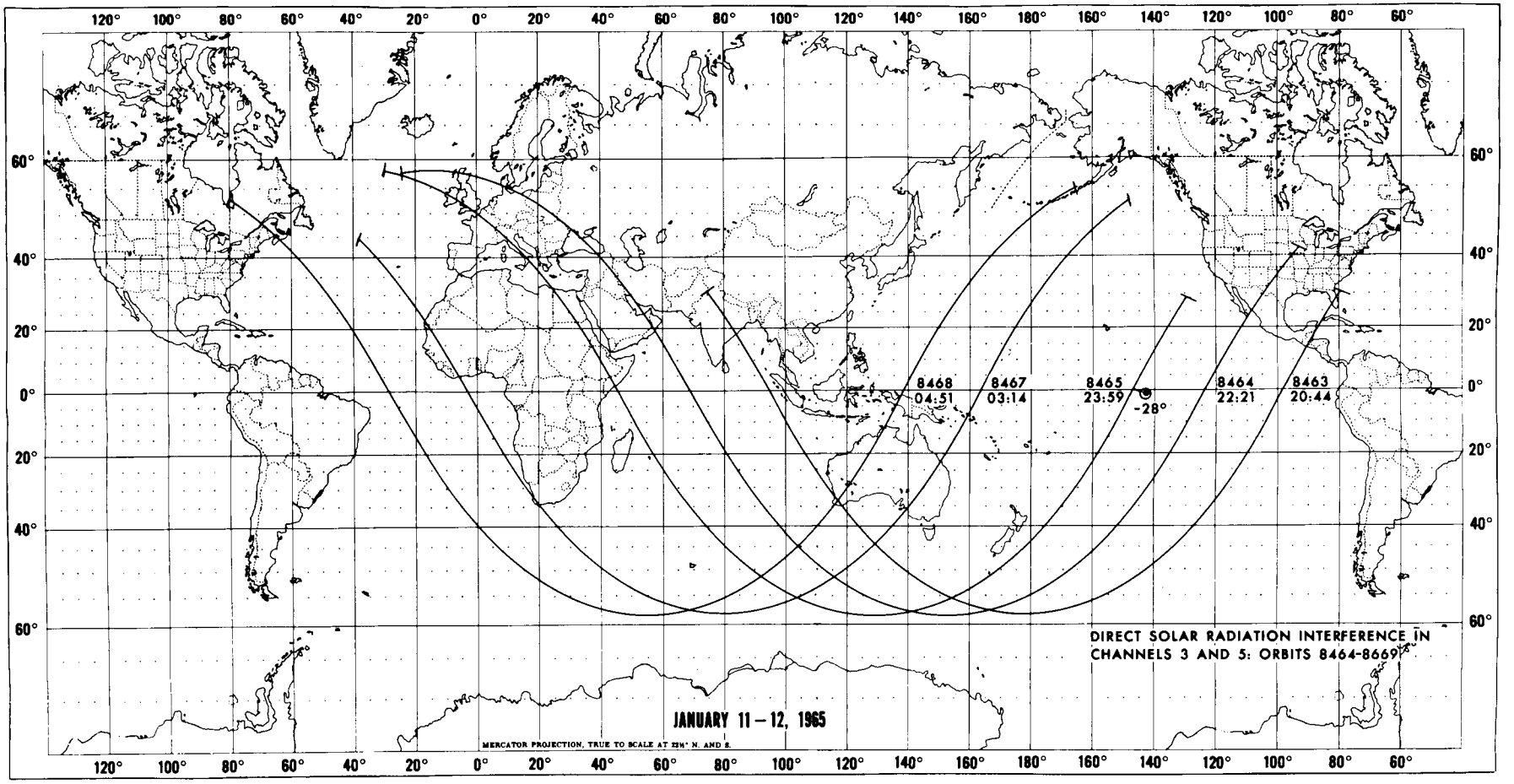
60°
40°
20°
0°
20°
40°
60°
8450
23:38
8449
22:00
-22°
JANUARY 10, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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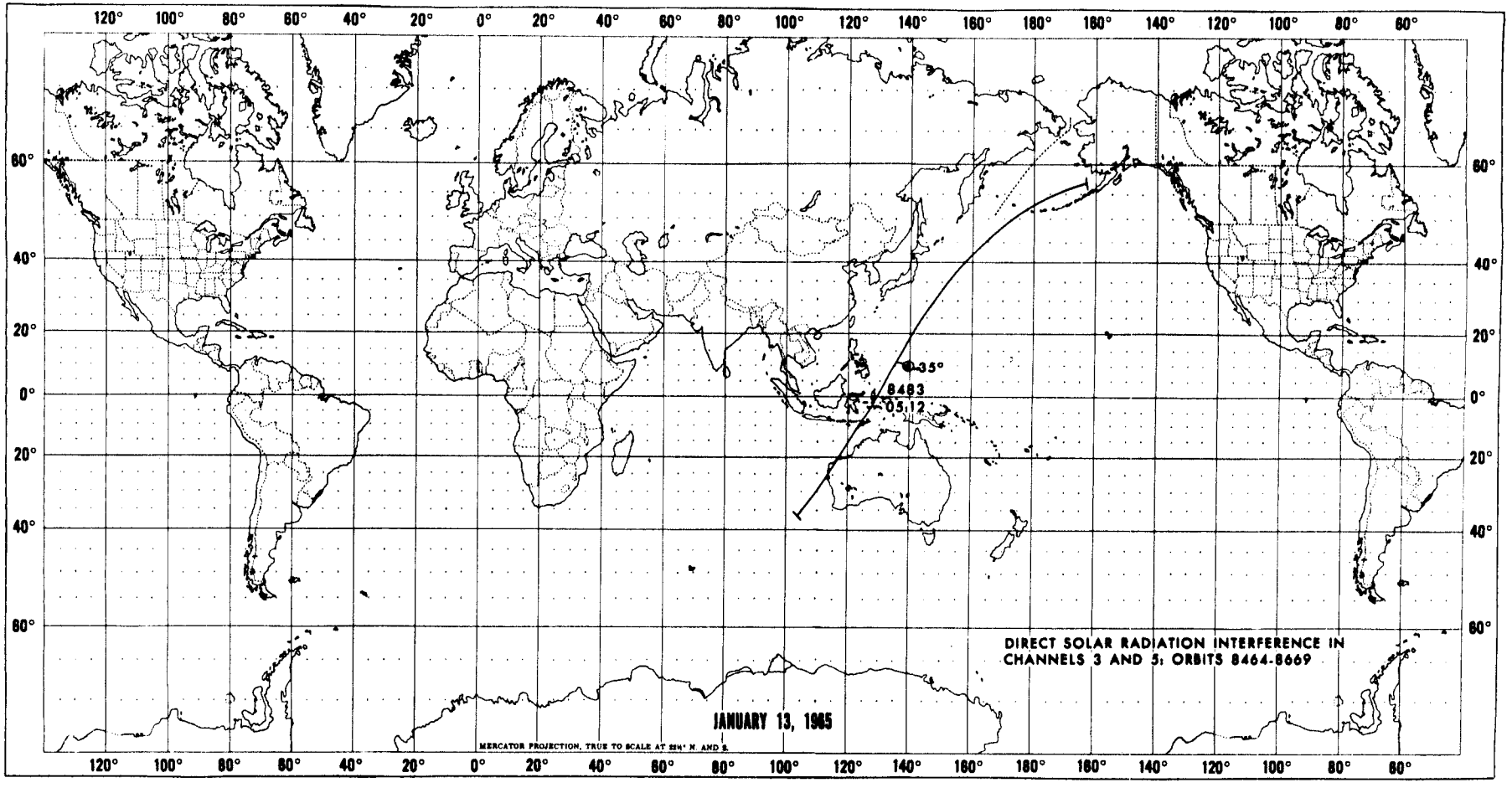
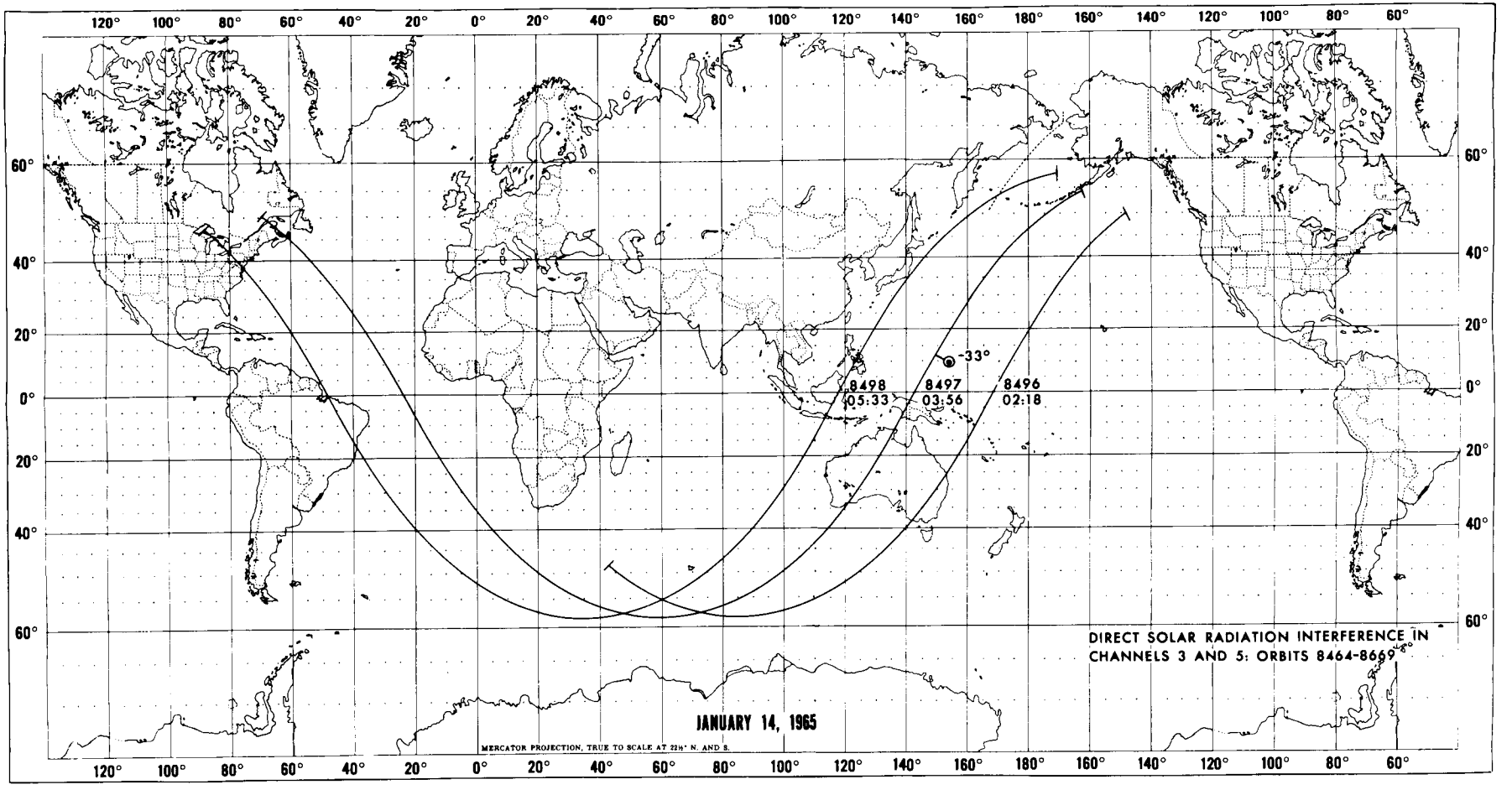
60°
40°
20°
0°
20°
40°
60°
8468
04:51
8467
03:14
8465
23:59
-28°
8464
22:21
8463
20:44
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5: ORBITS 8464-8669
JANUARY 11 – 12, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
-35°
8483
05:12
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5; ORBITS 8464-8669
JANUARY 13, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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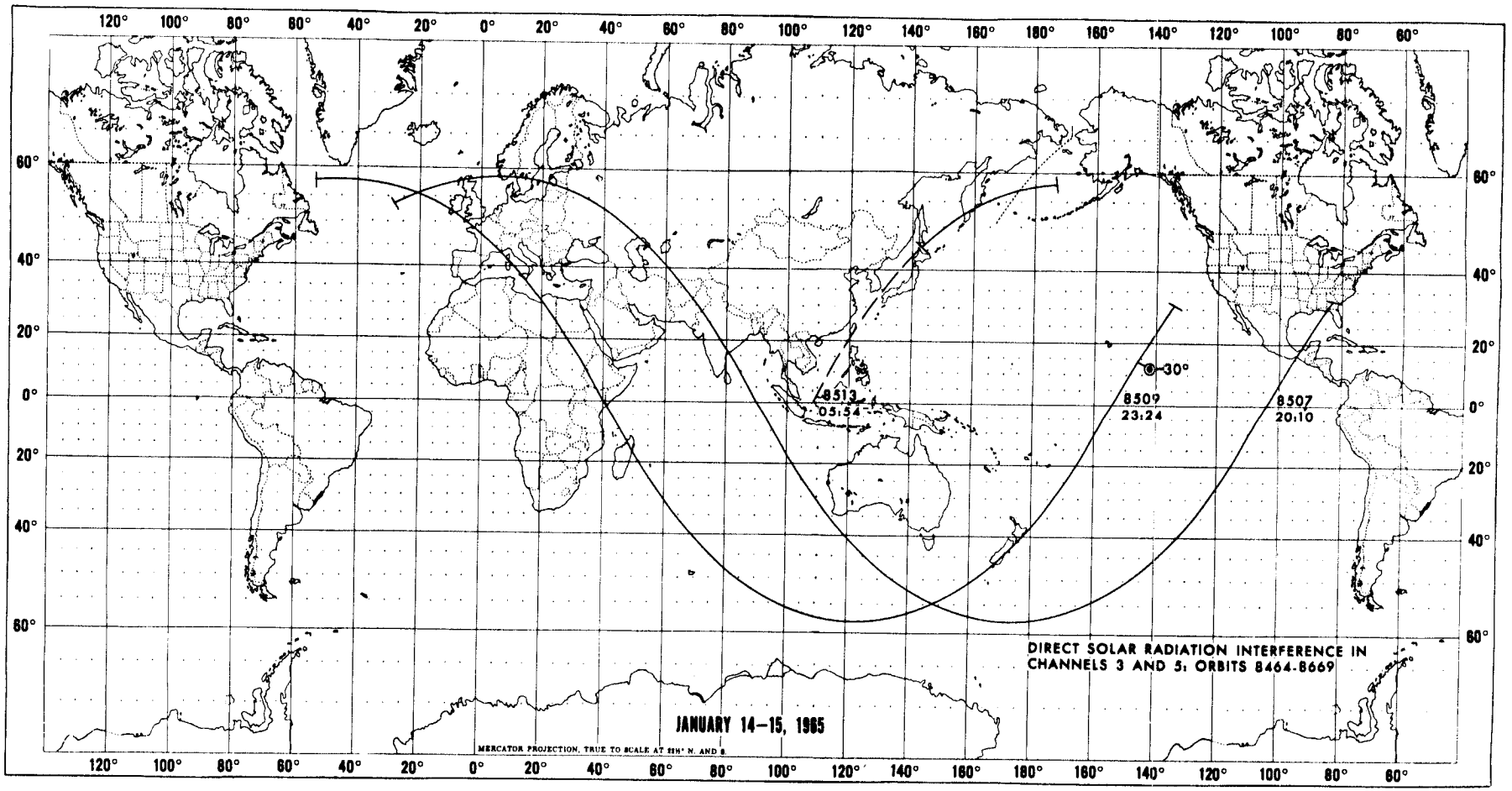
60°
40°
20°
0°
20°
40°
60°
-33°
8498
05:33
8497
03:56
8496
02:18
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5: ORBITS 8464-8669
JANUARY 14, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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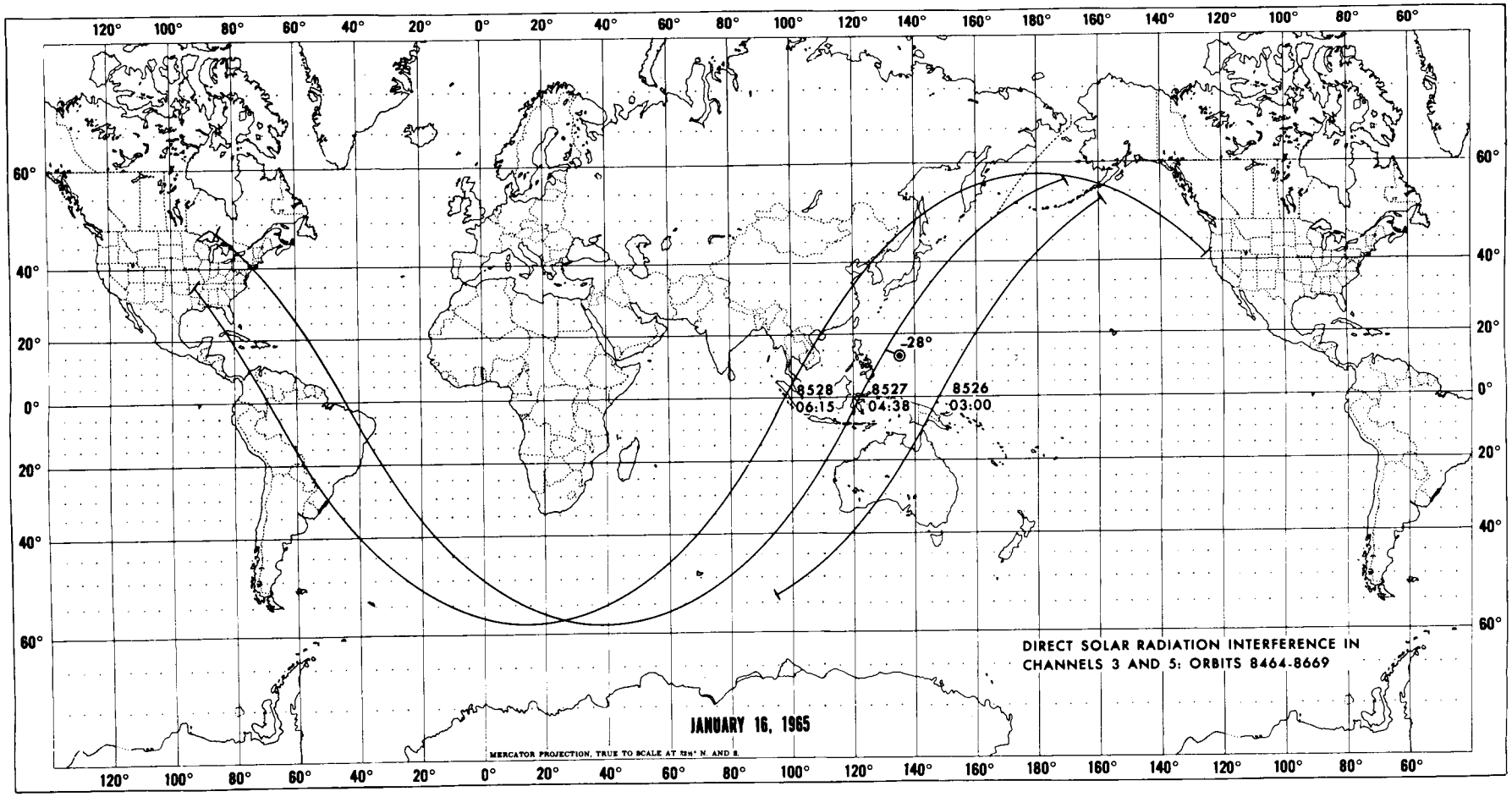
60°
40°
20°
0°
20°
40°
60°
8513
05:54
8509
23:24
8507
20:10
30°
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5; ORBITS 8464-8669
JANUARY 14–15, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 55½° N. AND S.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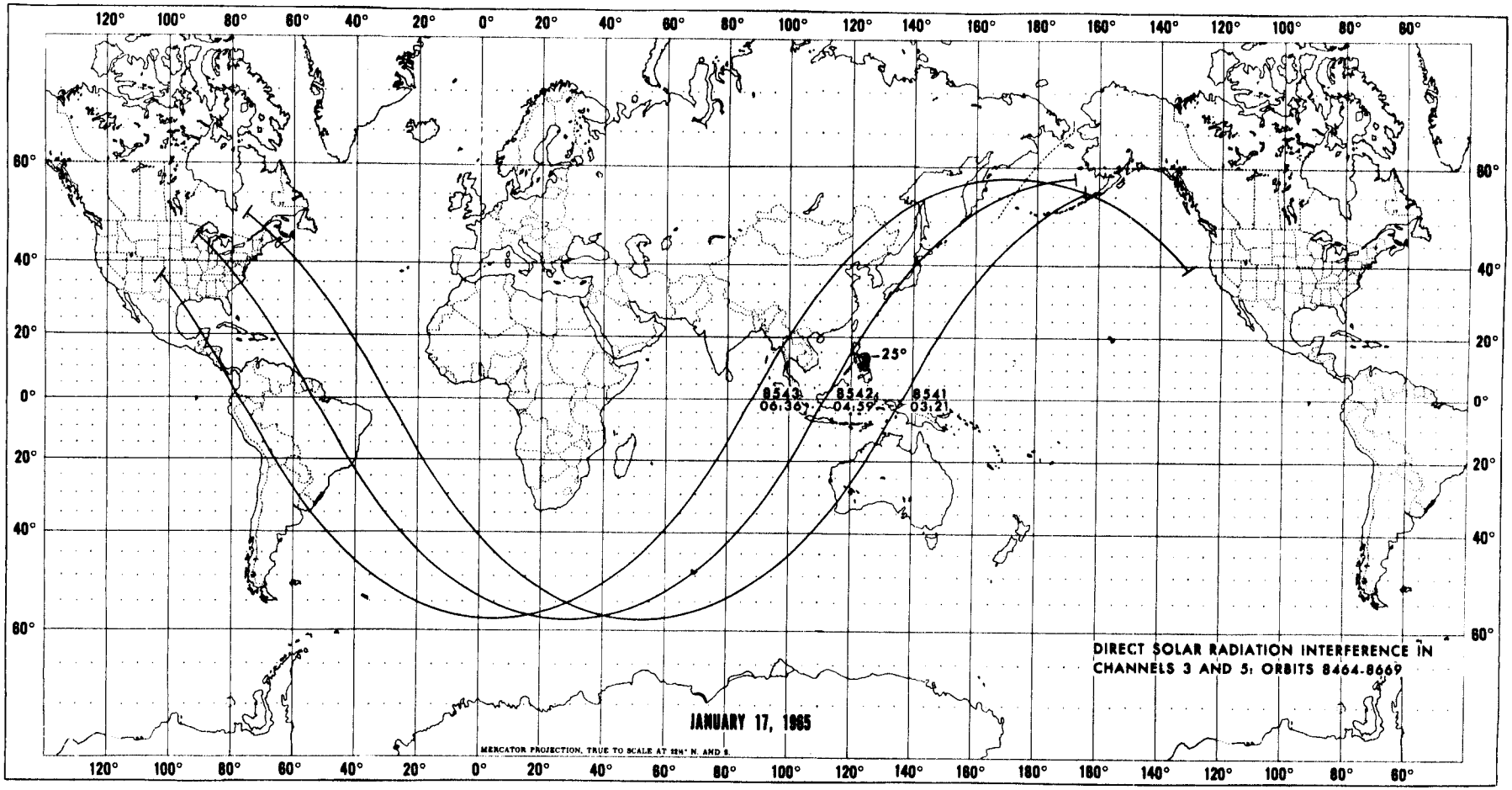
60°
40°
20°
0°
20°
40°
60°
-28°
8528
06:15
8527
04:38
8526
03:00
DIRECT SOLAR RADIATION INTERFERENCE IN
CHANNELS 3 AND 5: ORBITS 8464-8669
JANUARY 16, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 33½° N. AND S.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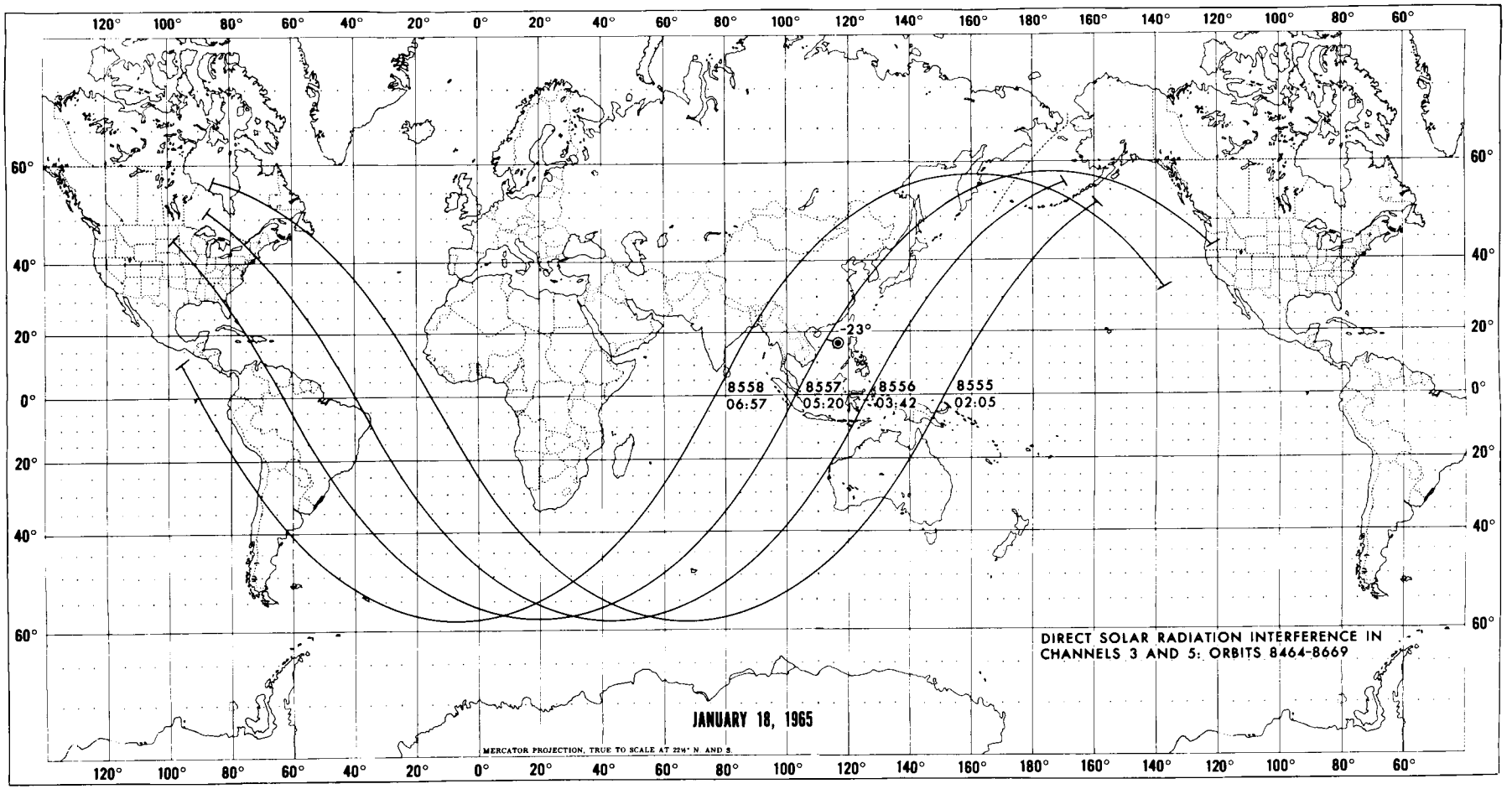
80°
40°
20°
0°
20°
40°
60°
-25°
8543
06:36
8542
04:59
8541
03:21
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5: ORBITS 8464-8669
JANUARY 17, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 28½° N. AND S.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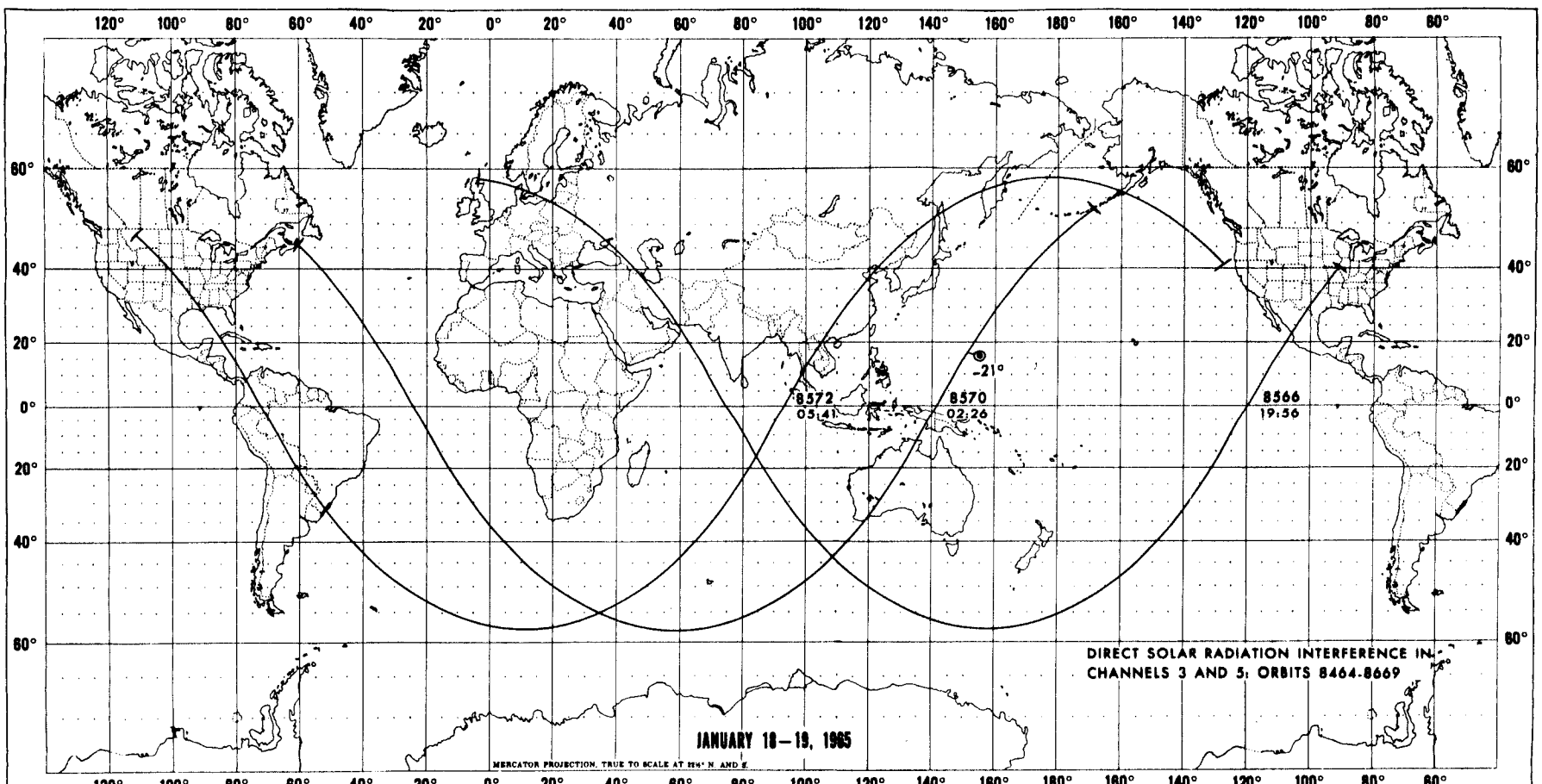
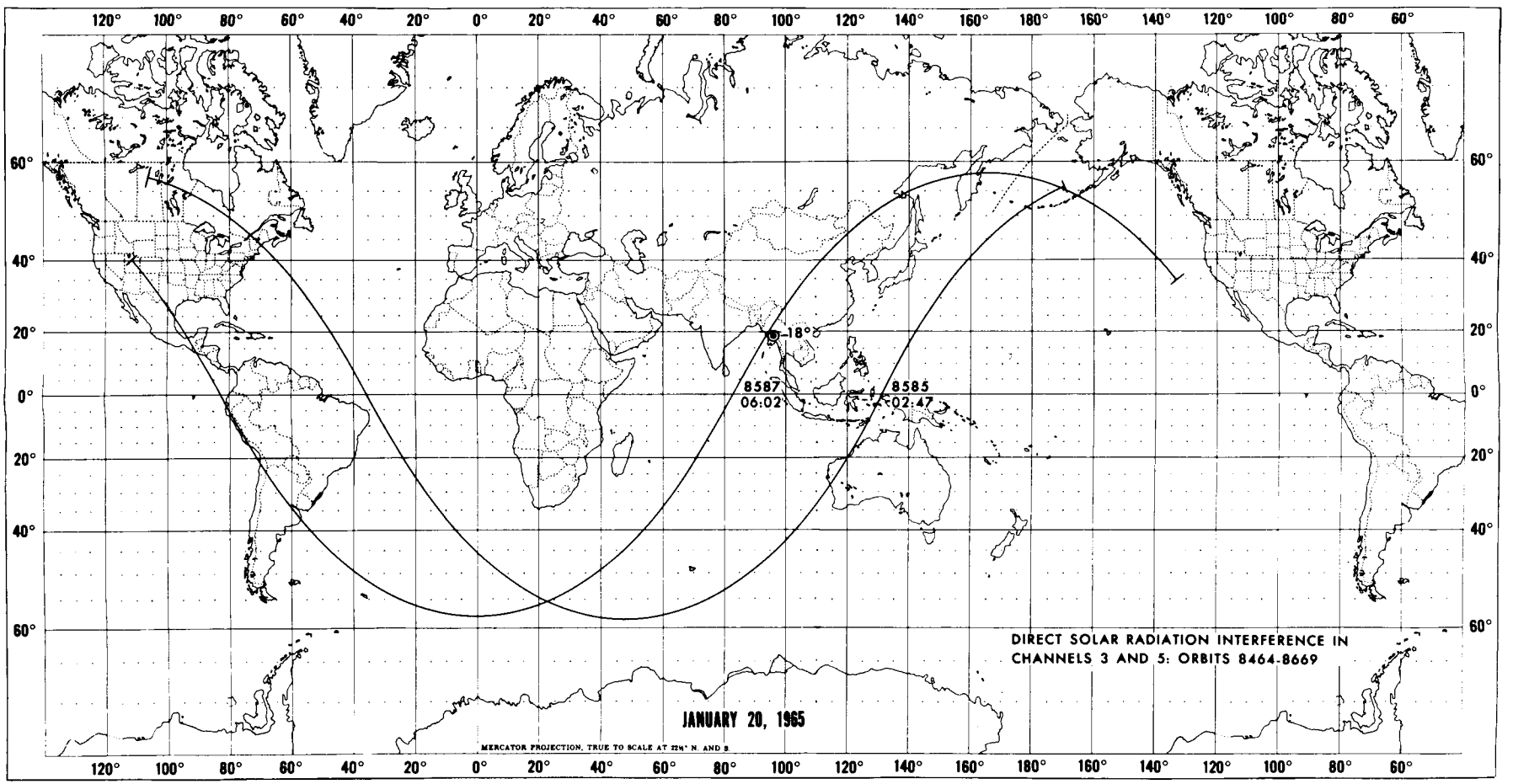
60°
40°
20°
0°
20°
40°
60°
-23°
8558
06:57
8557
05:20
8556
03:42
8555
02:05
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5: ORBITS 8464-8669
JANUARY 18, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
-21°
8572
05:41
8570
02:26
8566
19:56
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5; ORBITS 8464-8669
JANUARY 18–19, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 81½° N. AND S.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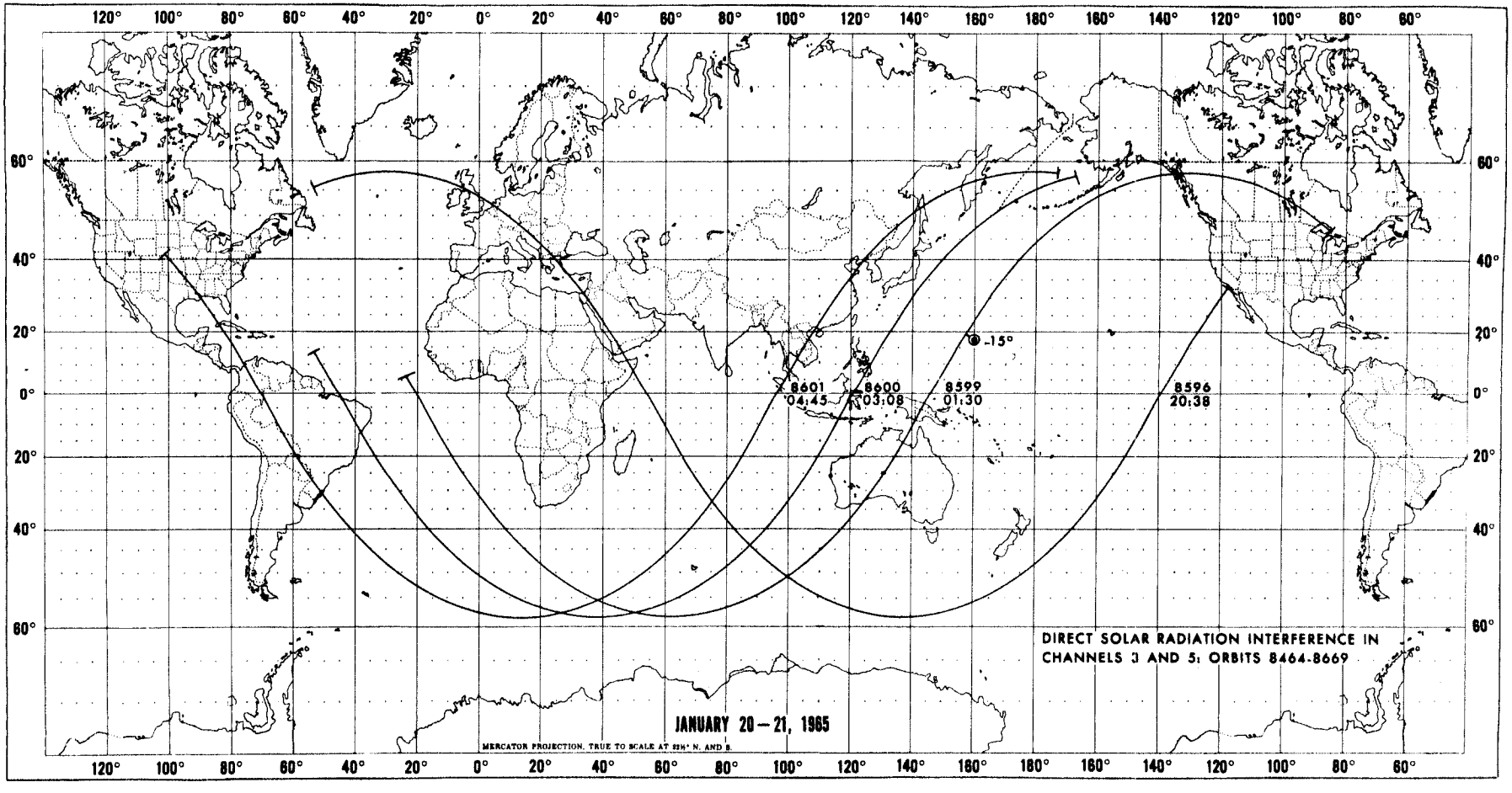
60°
40°
20°
0°
20°
40°
60°
18°
8587
06:02
8585
02:47
DIRECT SOLAR RADIATION INTERFERENCE IN
CHANNELS 3 AND 5: ORBITS 8464-8669
JANUARY 20, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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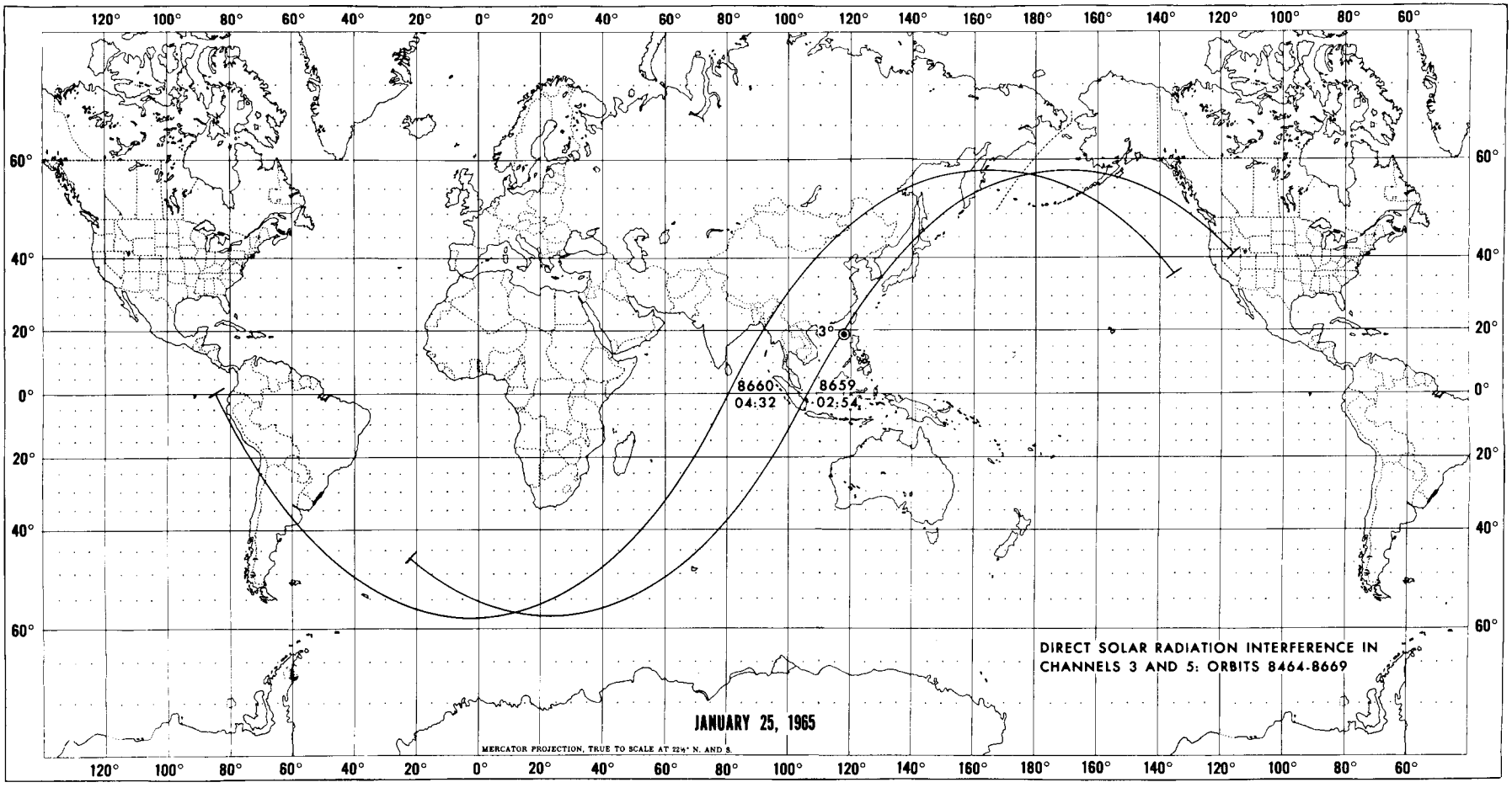
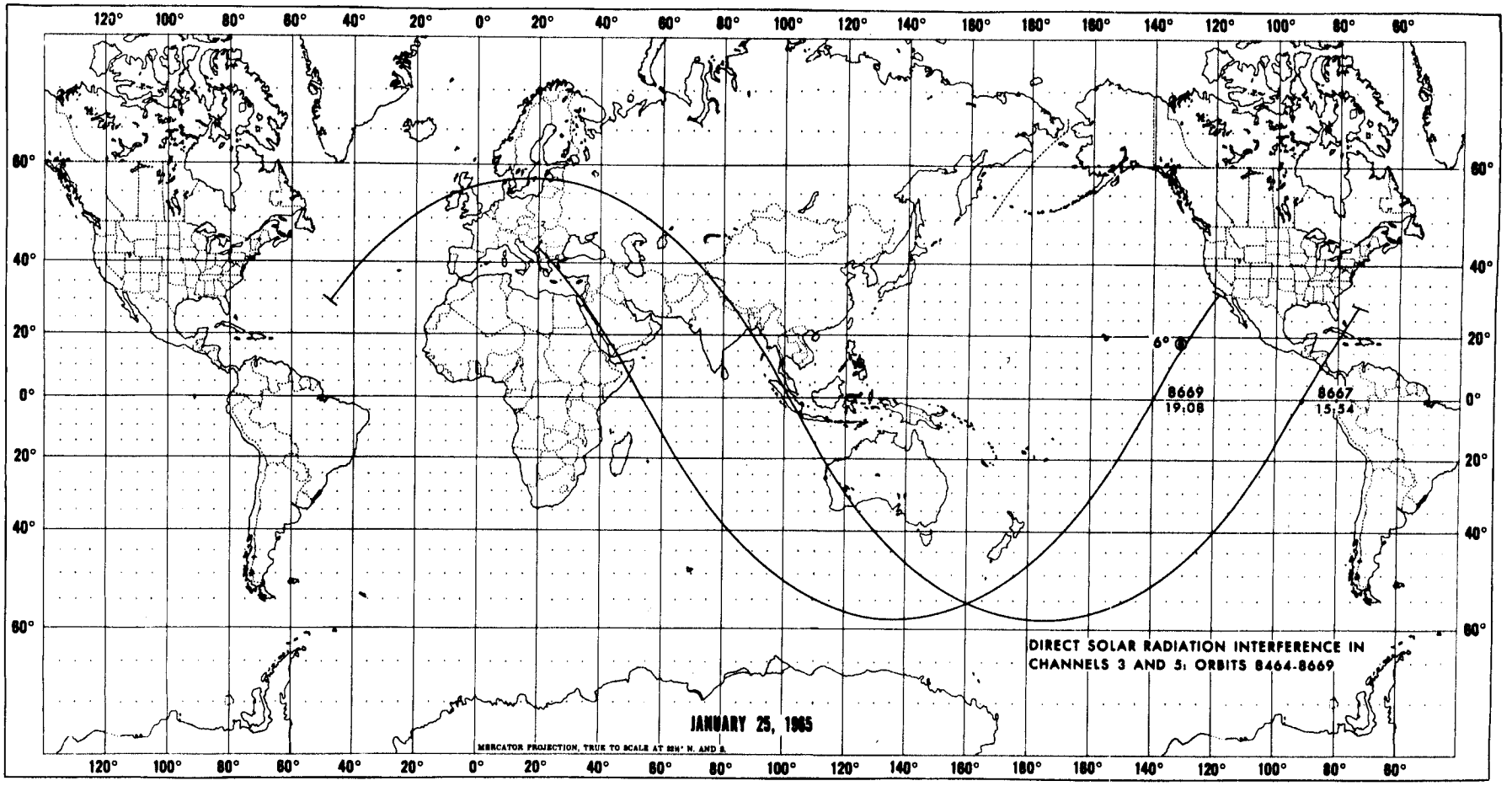
60°
40°
20°
0°
20°
40°
60°
-15°
8601
04:45
8600
03:08
8599
01:30
8596
20:38
DIRECT SOLAR RADIATION INTERFERENCE IN
CHANNELS 3 AND 5; ORBITS 8464-8669
JANUARY 20—21, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 33½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
3°
8660
04:32
8659
02:54
DIRECT SOLAR RADIATION INTERFERENCE IN
CHANNELS 3 AND 5: ORBITS 8464-8669
JANUARY 25, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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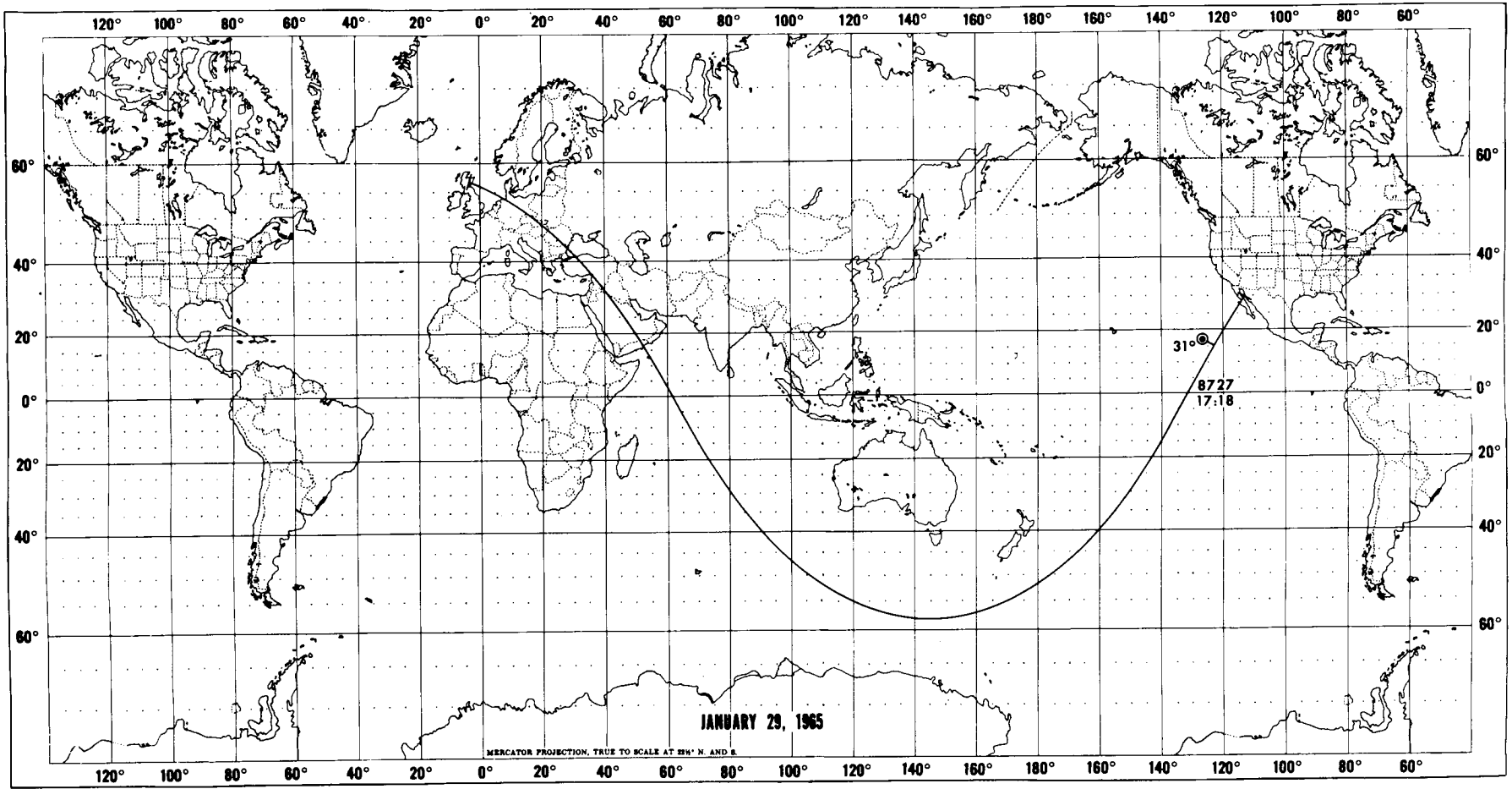
60°
40°
20°
0°
20°
40°
60°
6°
8669
19:08
8667
15:54
DIRECT SOLAR RADIATION INTERFERENCE IN
CHANNELS 3 AND 5; ORBITS 8464-8669
JANUARY 25, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 80° N. AND S.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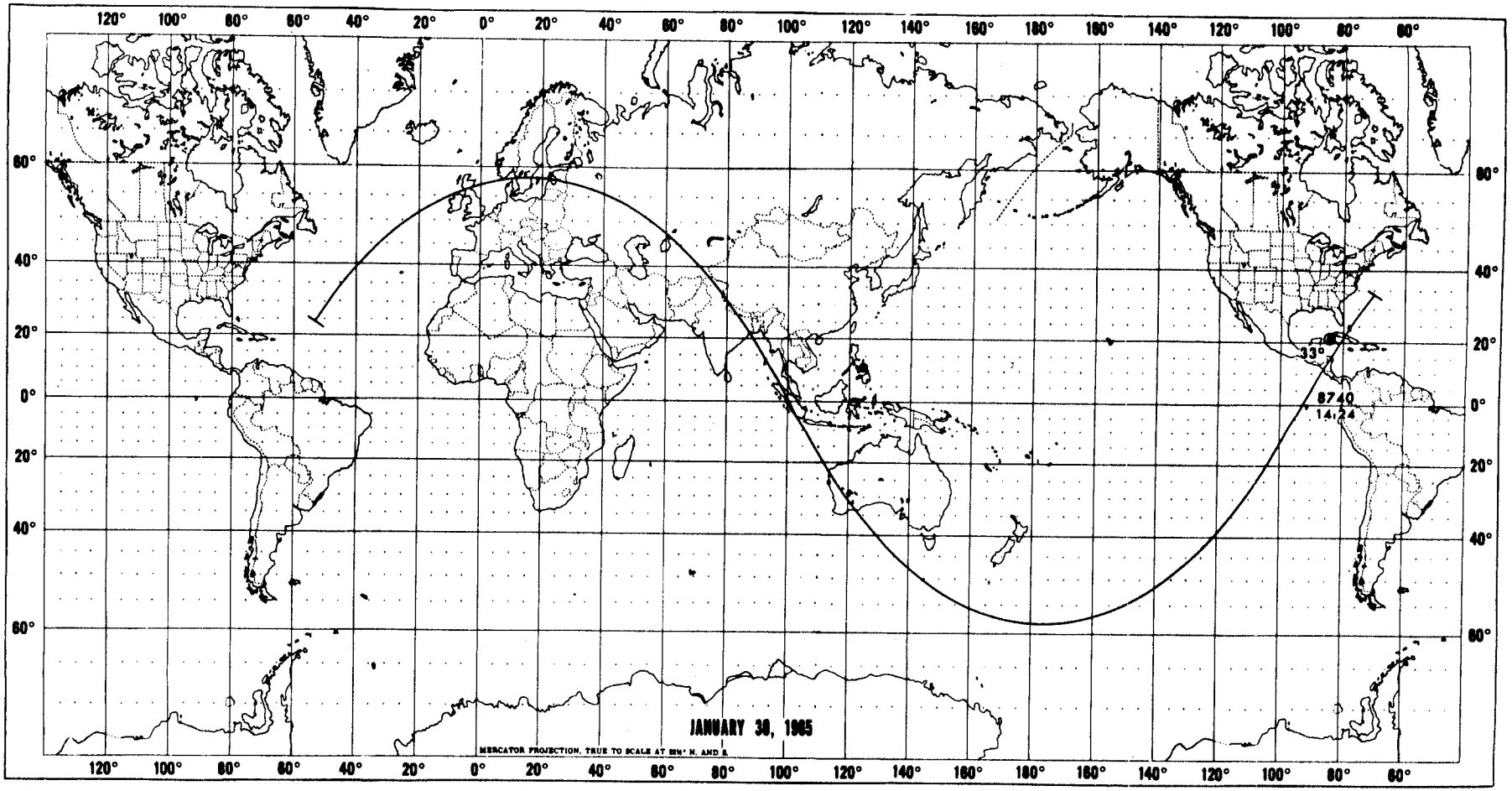
60°
40°
20°
0°
20°
40°
60°
31°
8727
17:18
JANUARY 29, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 33½° N. AND S.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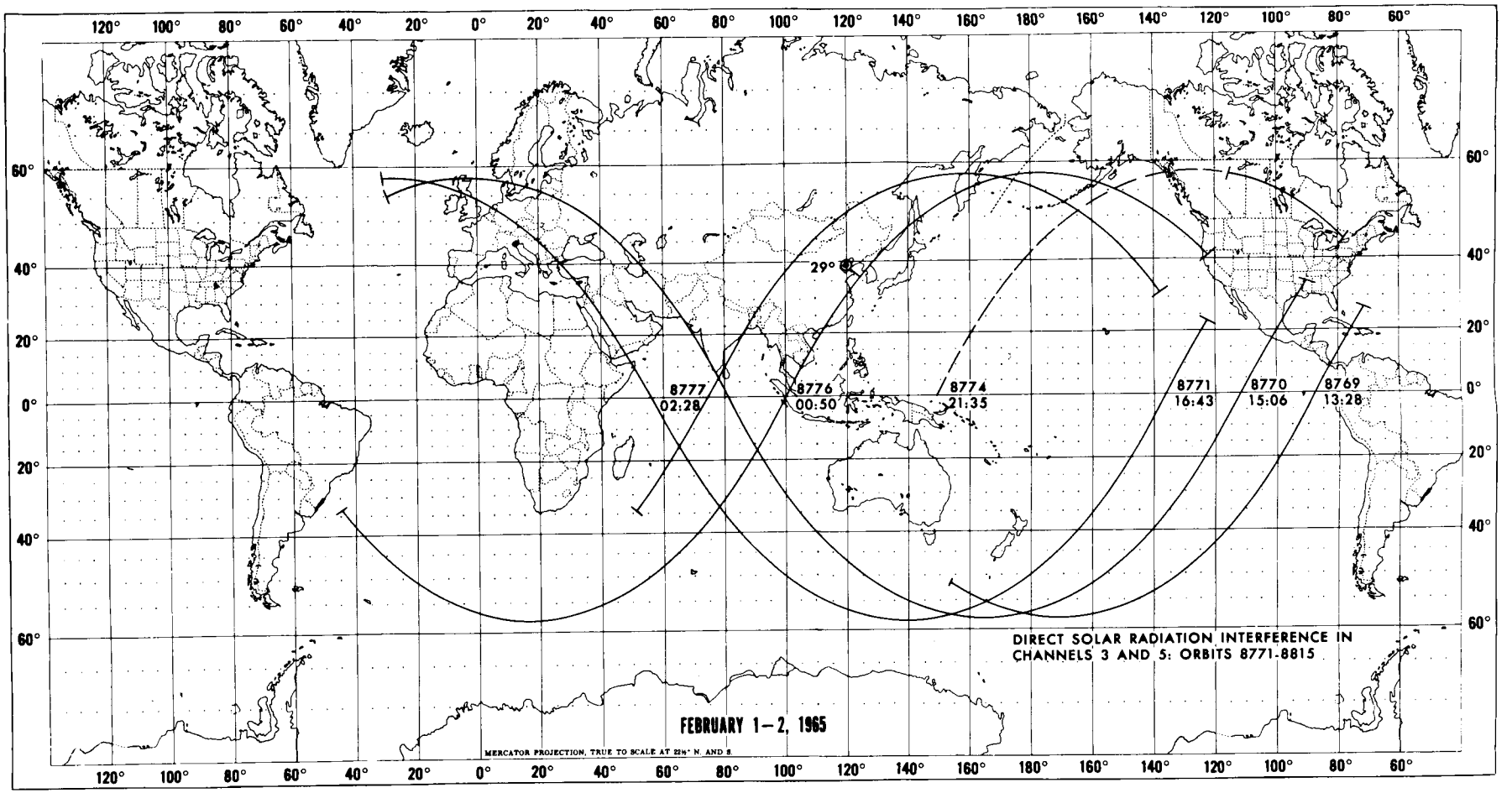
80°
40°
20°
0°
20°
40°
60°
33°
8740
14.24
JANUARY 30, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 80° N. AND S.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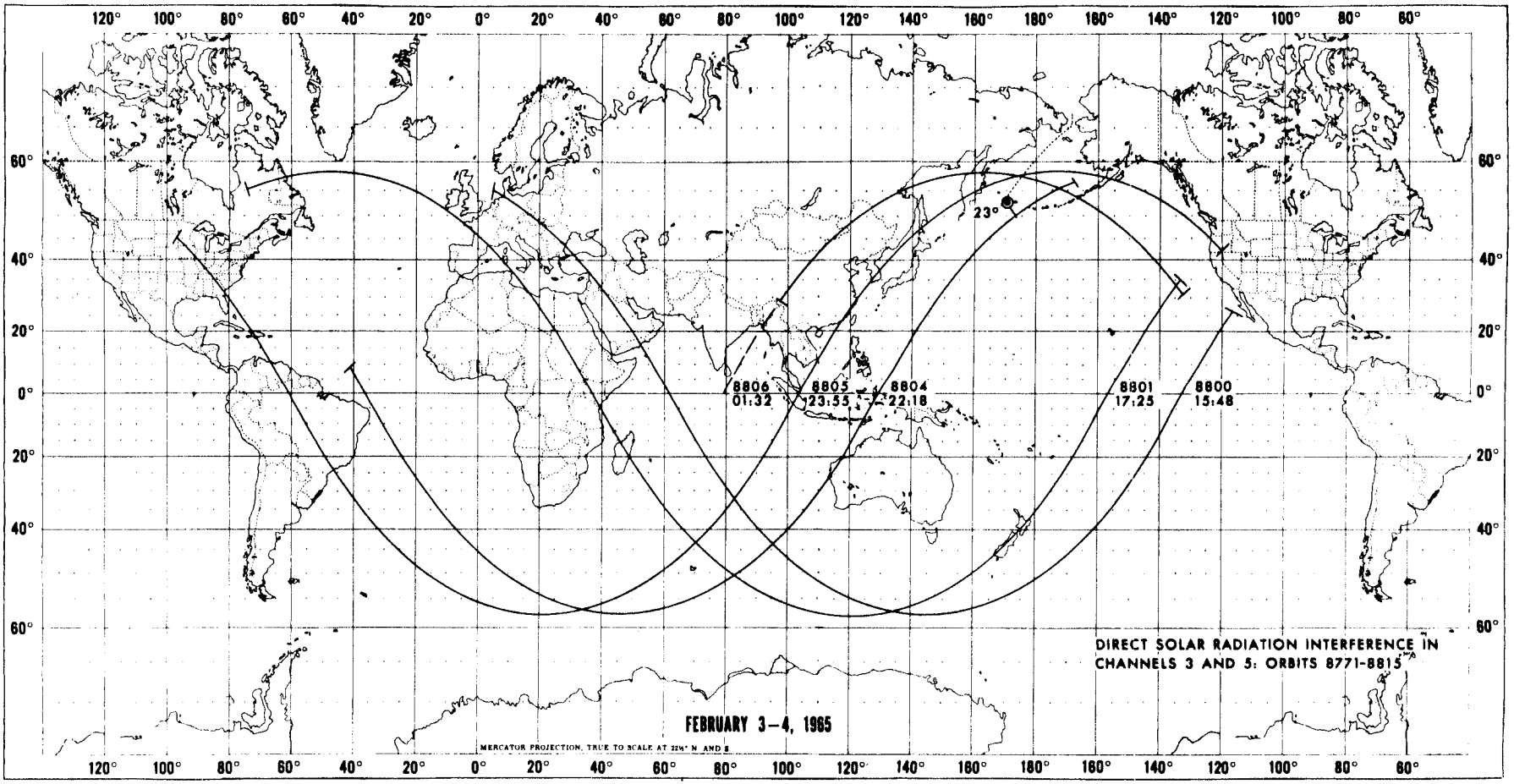
60°
40°
20°
0°
20°
40°
60°
29°
8777
02:28
8776
00:50
8774
21:35
8771
16:43
8770
15:06
8769
13:28
DIRECT SOLAR RADIATION INTERFERENCE IN
CHANNELS 3 AND 5: ORBITS 8771-8815
FEBRUARY 1–2, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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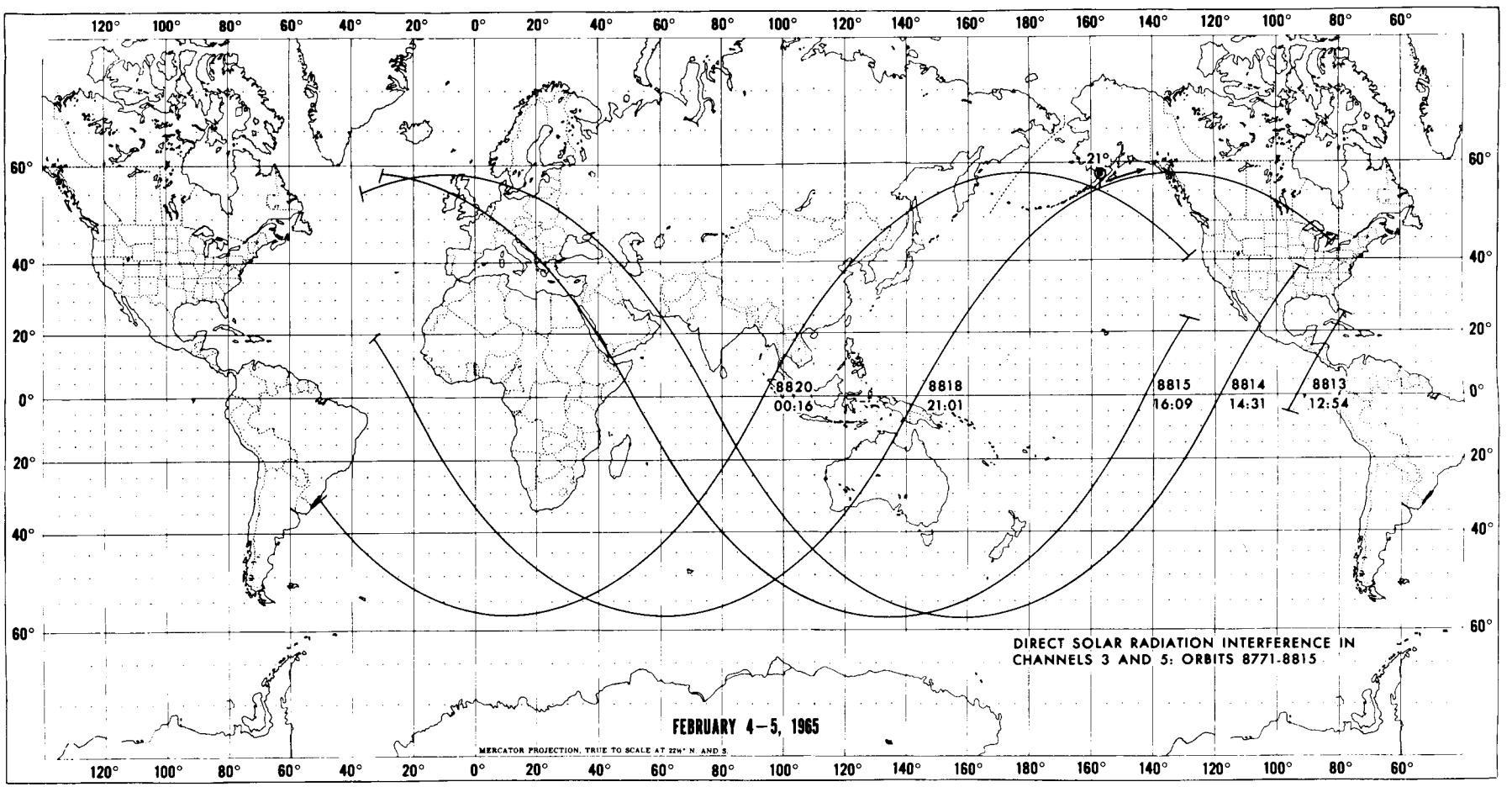
60°
40°
20°
0°
20°
40°
60°
23°
8806
01:32
8805
23:55
8804
22:18
8801
17:25
8800
15:48
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5: ORBITS 8771-8815
FEBRUARY 3–4, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N AND S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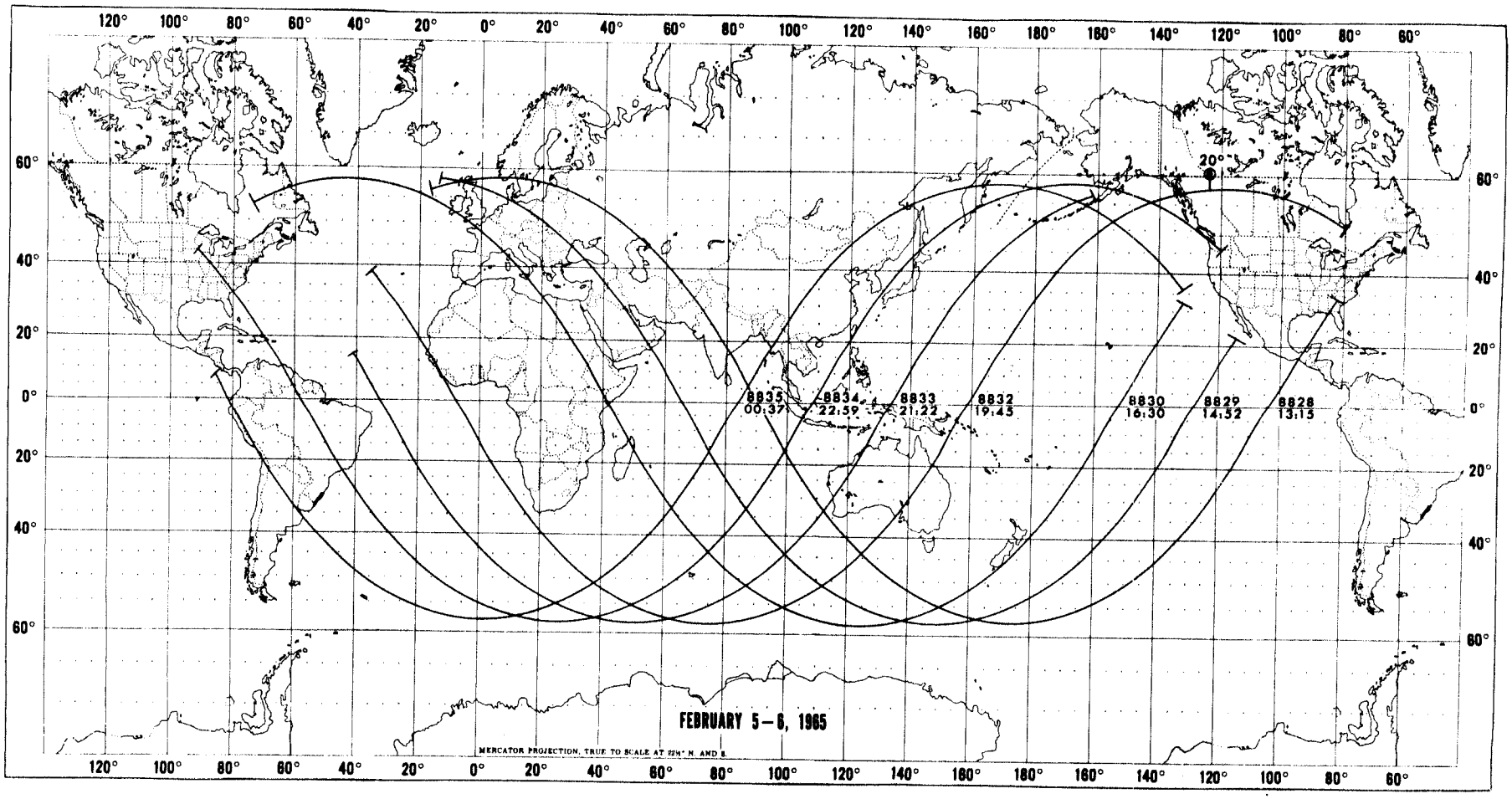
60°
40°
20°
0°
20°
40°
60°
21°
8820
00:16
8818
21:01
8815
16:09
8814
14:31
8813
12:54
DIRECT SOLAR RADIATION INTERFERENCE IN
CHANNELS 3 AND 5: ORBITS 8771-8815
FEBRUARY 4–5, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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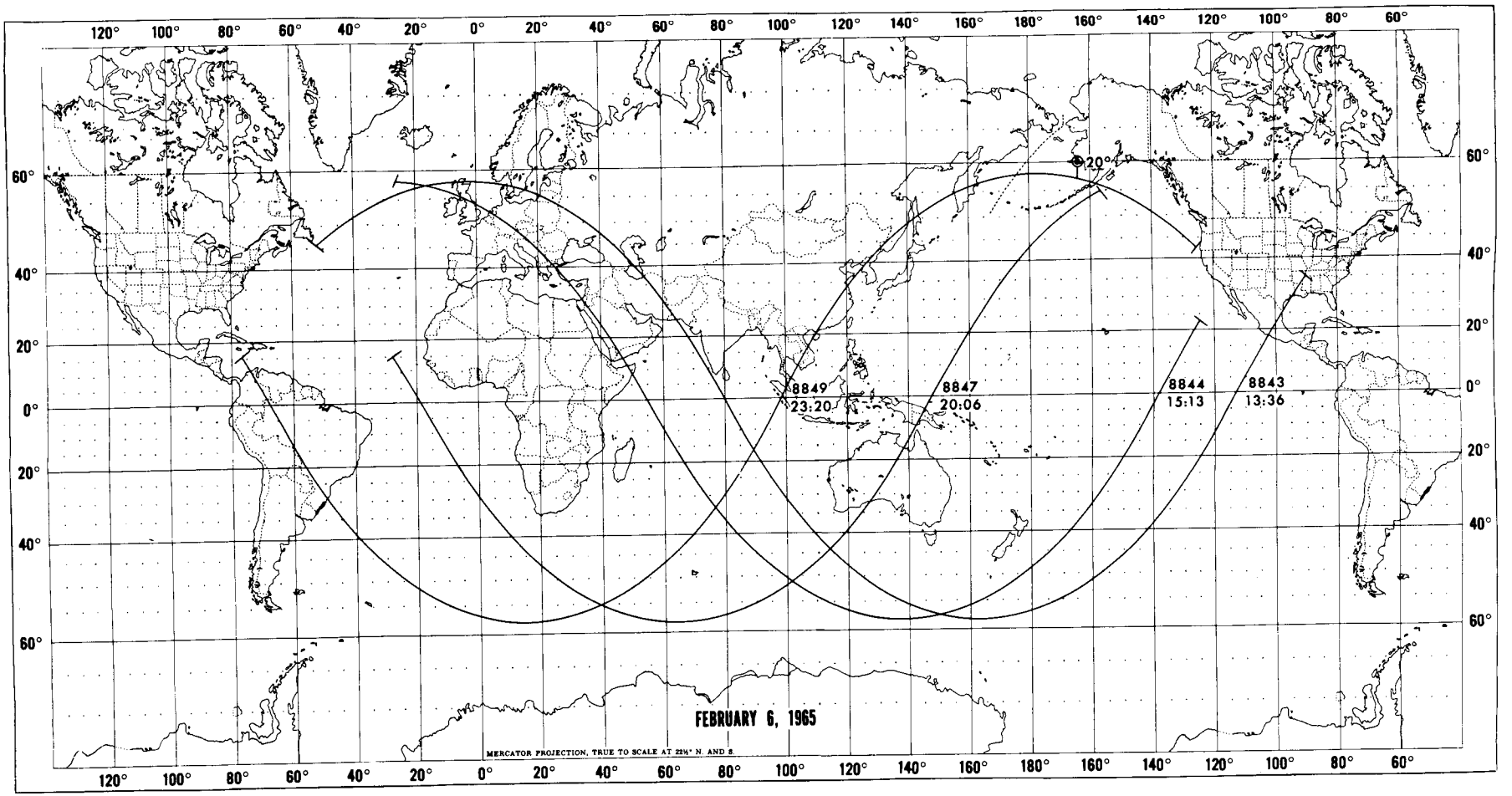
60°
40°
20°
0°
20°
40°
60°
20°
8835
00:37
8834
22:59
8833
21:22
8832
19:43
8830
16:30
8829
14:52
8828
13:15
FEBRUARY 5–6, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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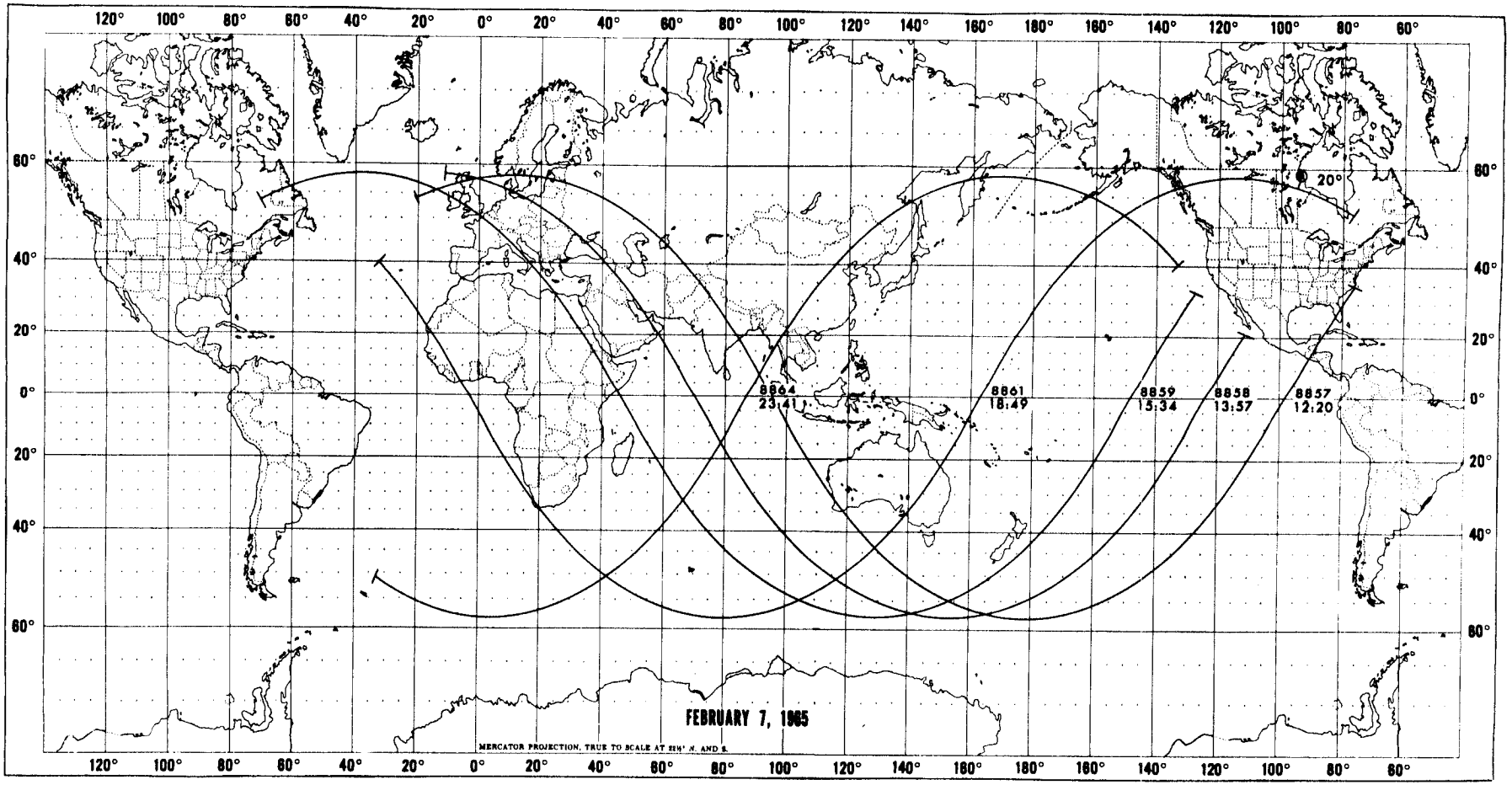
60°
40°
20°
0°
20°
40°
60°
8849
23:20
8847
20:06
8844
15:13
8843
13:36
FEBRUARY 6, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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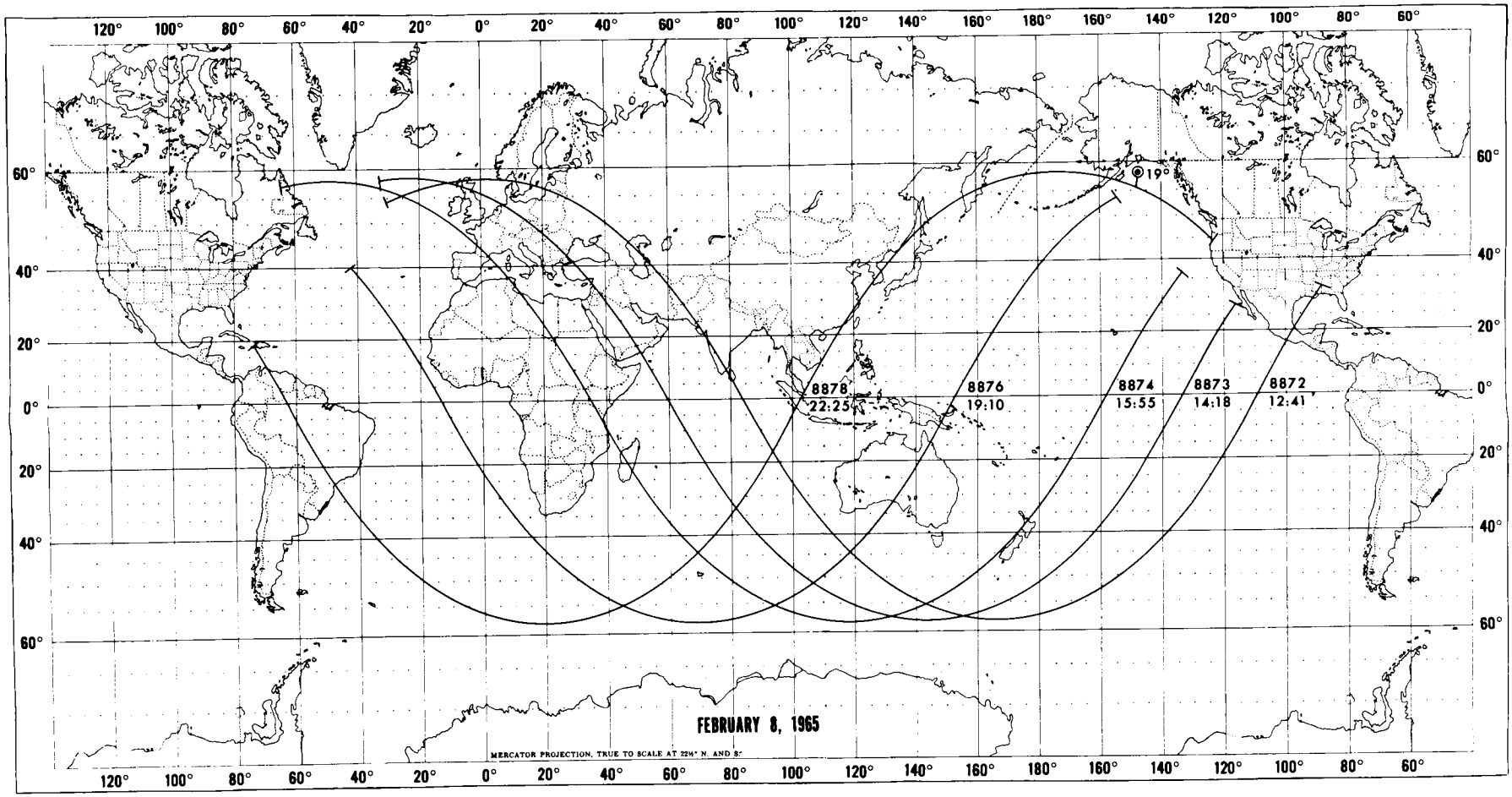
60°
40°
20°
0°
20°
40°
60°
8864
23:41
8861
18:49
8859
15:34
8858
13:57
8857
12:20
FEBRUARY 7, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 20° N. AND S.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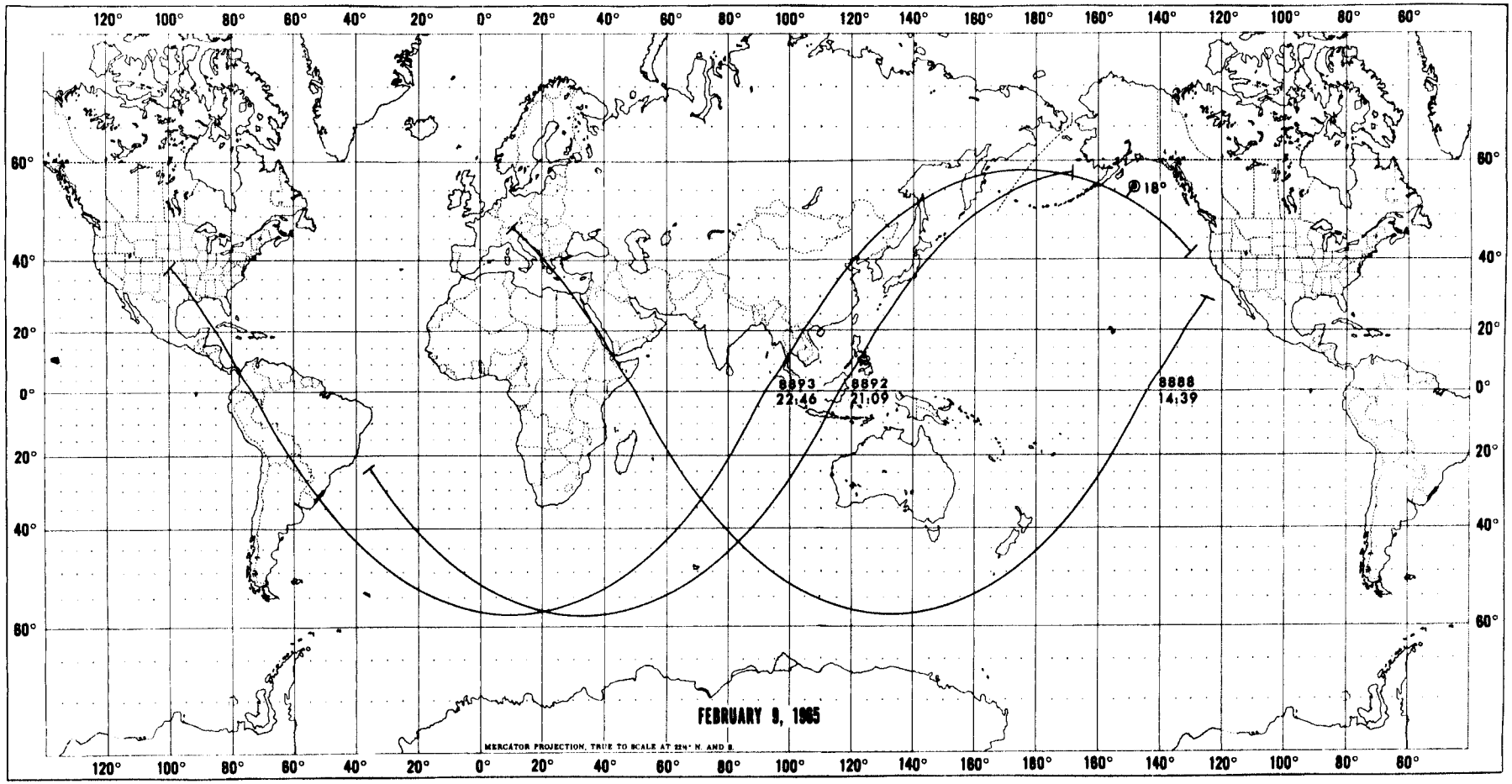
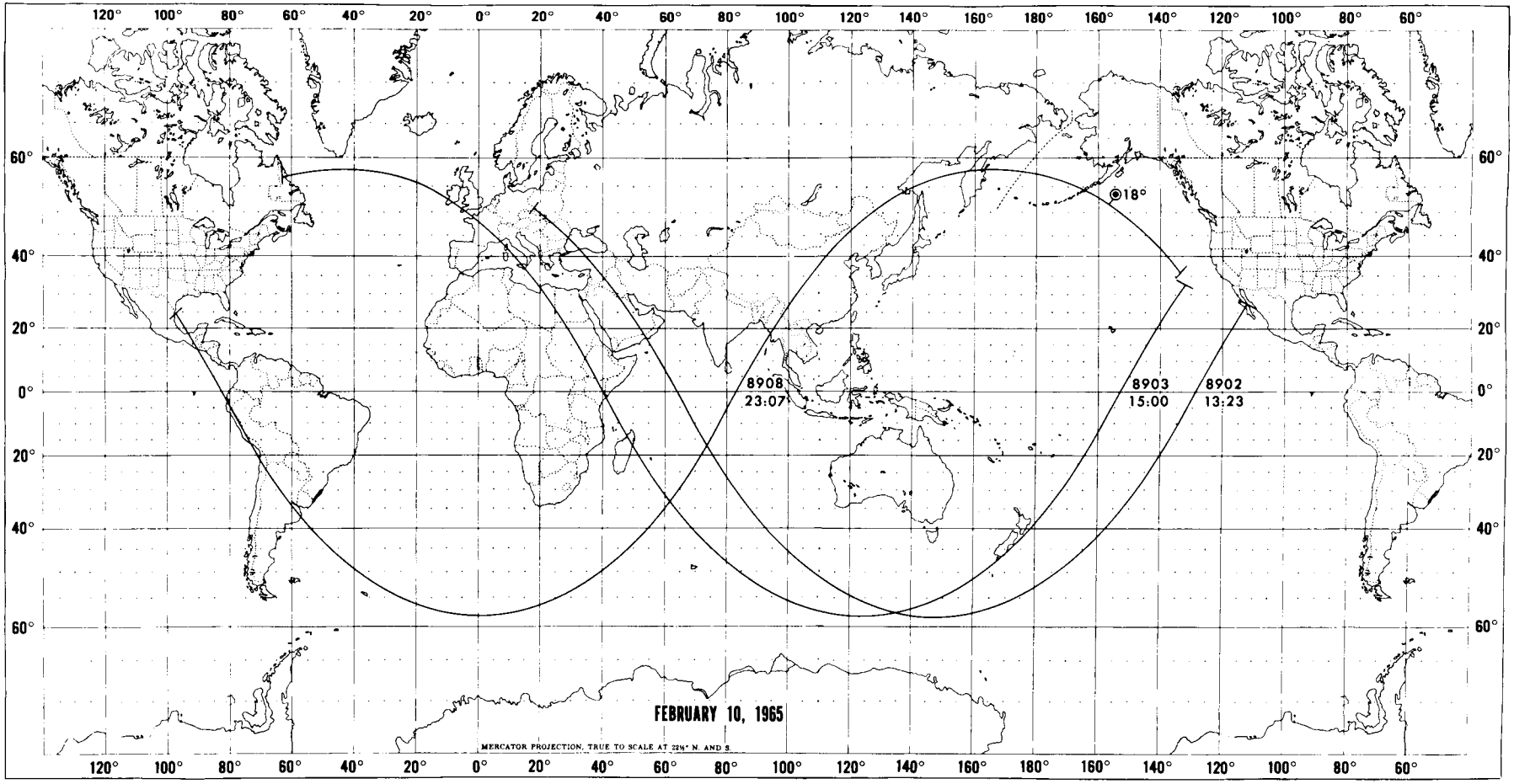
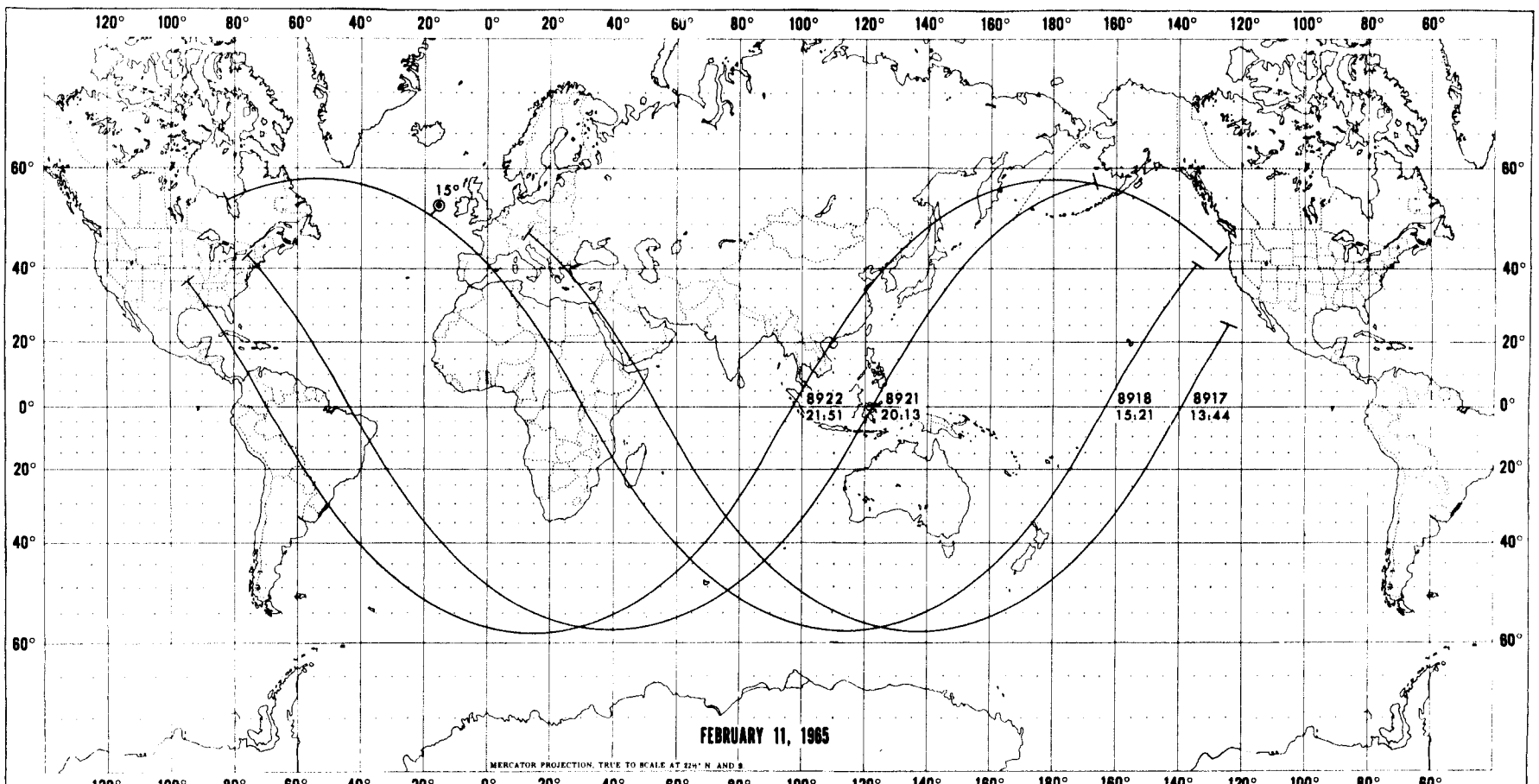
60°
40°
20°
0°
20°
40°
60°
19°
8878
22:25
8876
19:10
8874
15:55
8873
14:18
8872
12:41
FEBRUARY 8, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
18°
8893
22:46
8892
21:09
8888
14:39
FEBRUARY 9, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
18°
8908
23:07
8903
15:00
8902
13:23
FEBRUARY 10, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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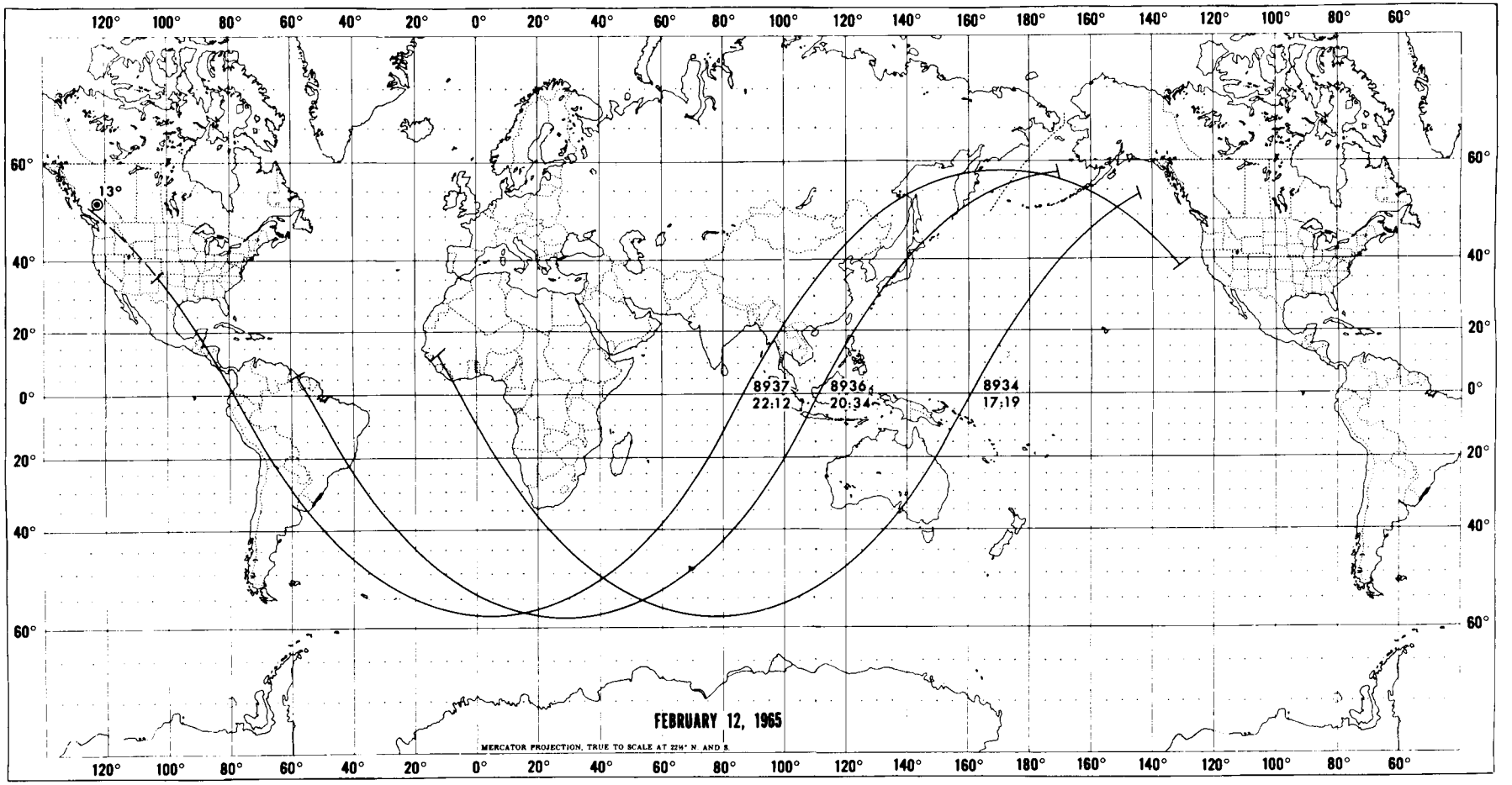
60°
40°
20°
0°
20°
40°
60°
15°
8922
21:51
8921
20:13
8918
15:21
8917
13:44
FEBRUARY 11, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 32½° N AND S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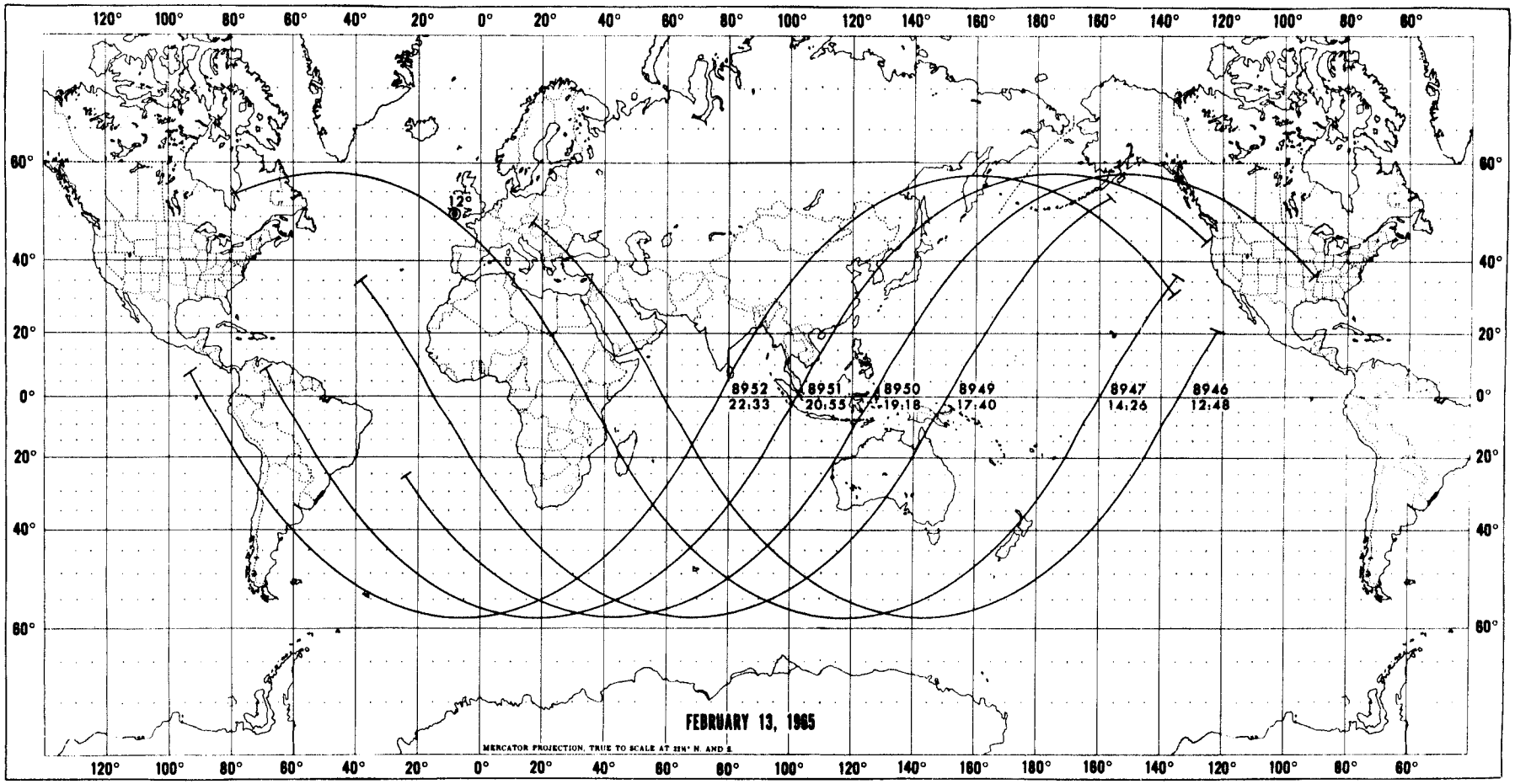
60°
40°
20°
0°
20°
40°
60°
13°
8937
22:12
8936
20:34
8934
17:19
FEBRUARY 12, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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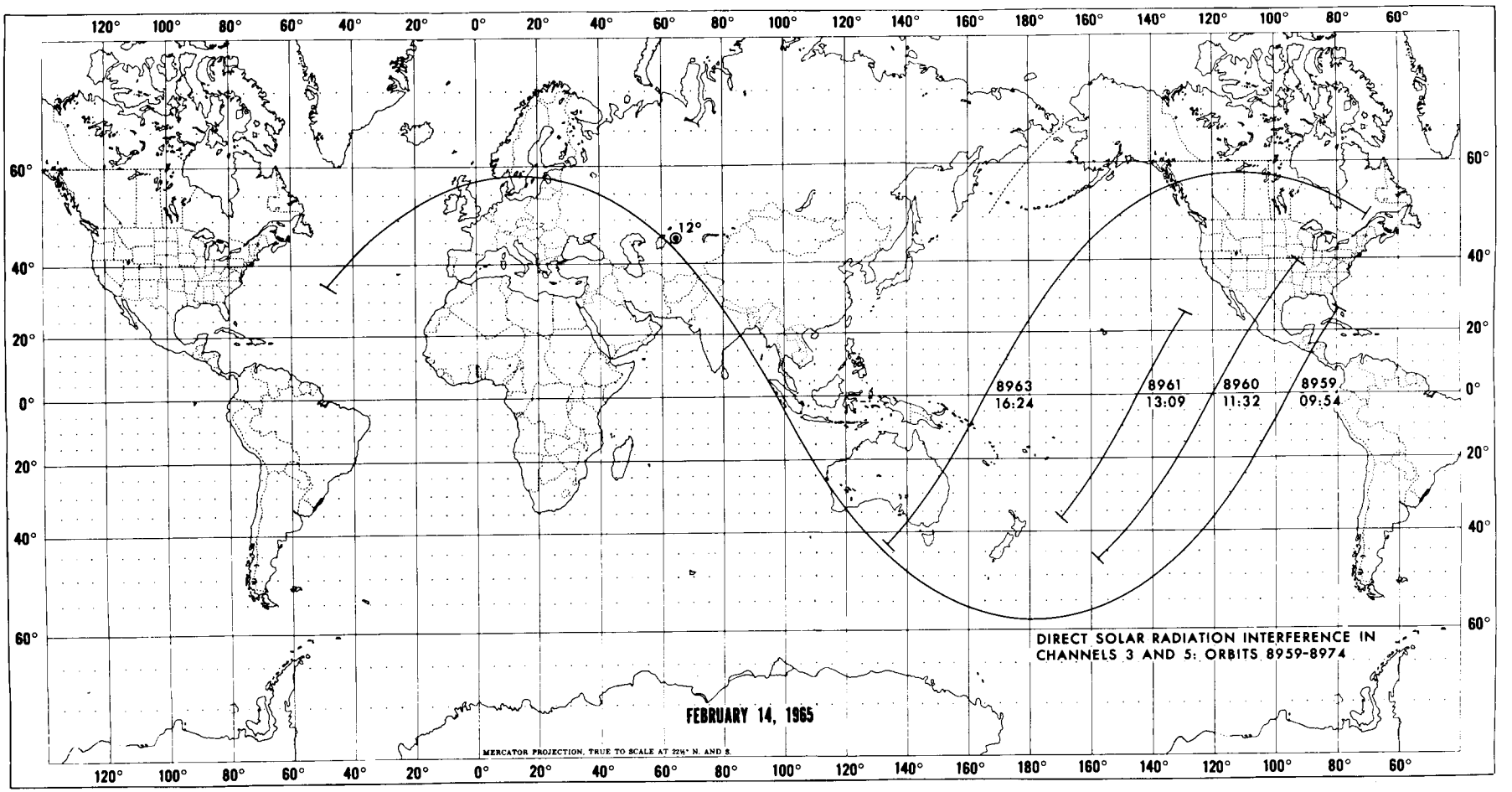
60°
40°
20°
0°
20°
40°
60°
8952
22.33
8951
20.55
8950
19.18
8949
17.40
8947
14.26
8946
12.48
FEBRUARY 13, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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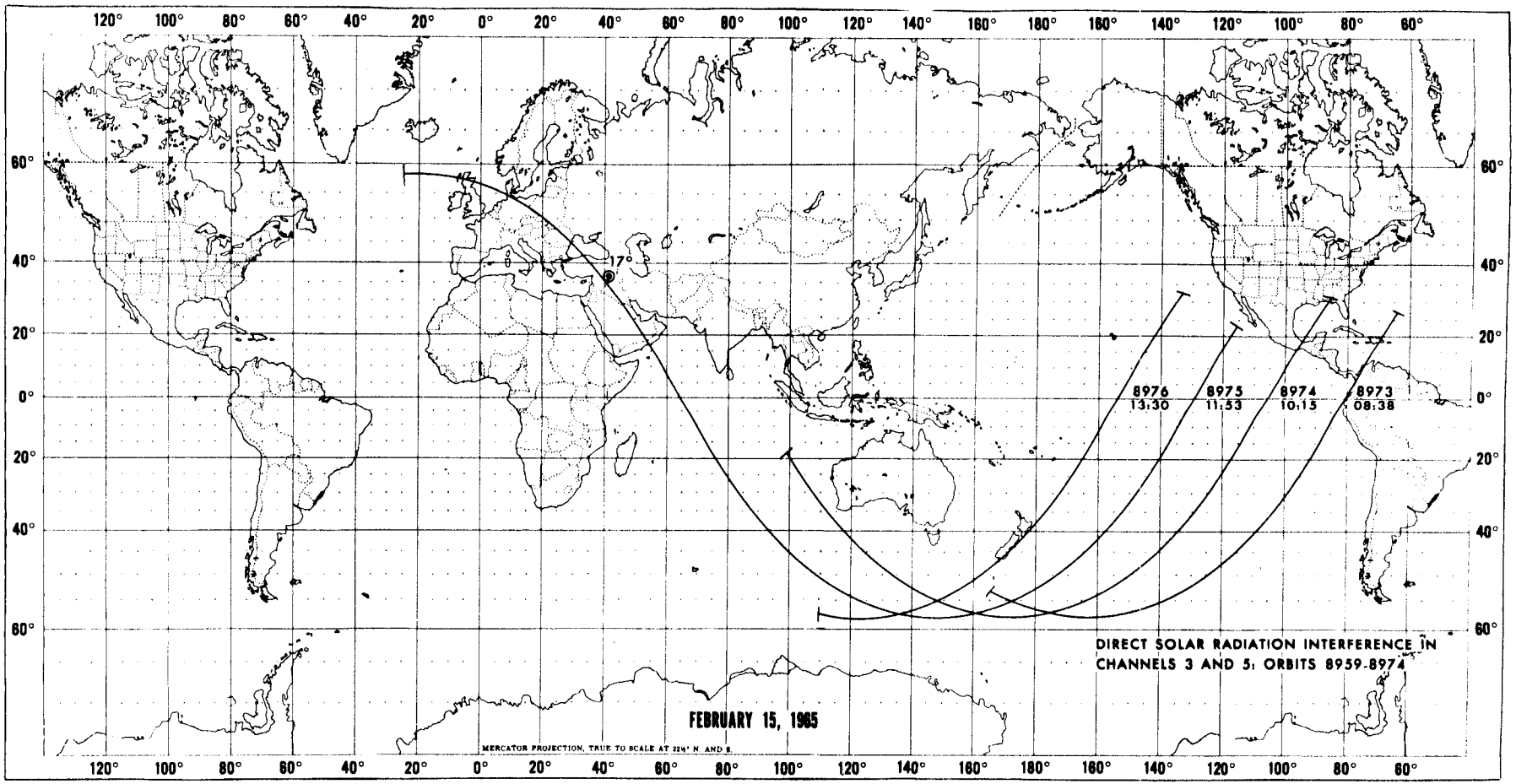
60°
40°
20°
0°
20°
40°
60°
12°
8963
16:24
8961
13:09
8960
11:32
8959
09:54
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5: ORBITS 8959-8974
FEBRUARY 14, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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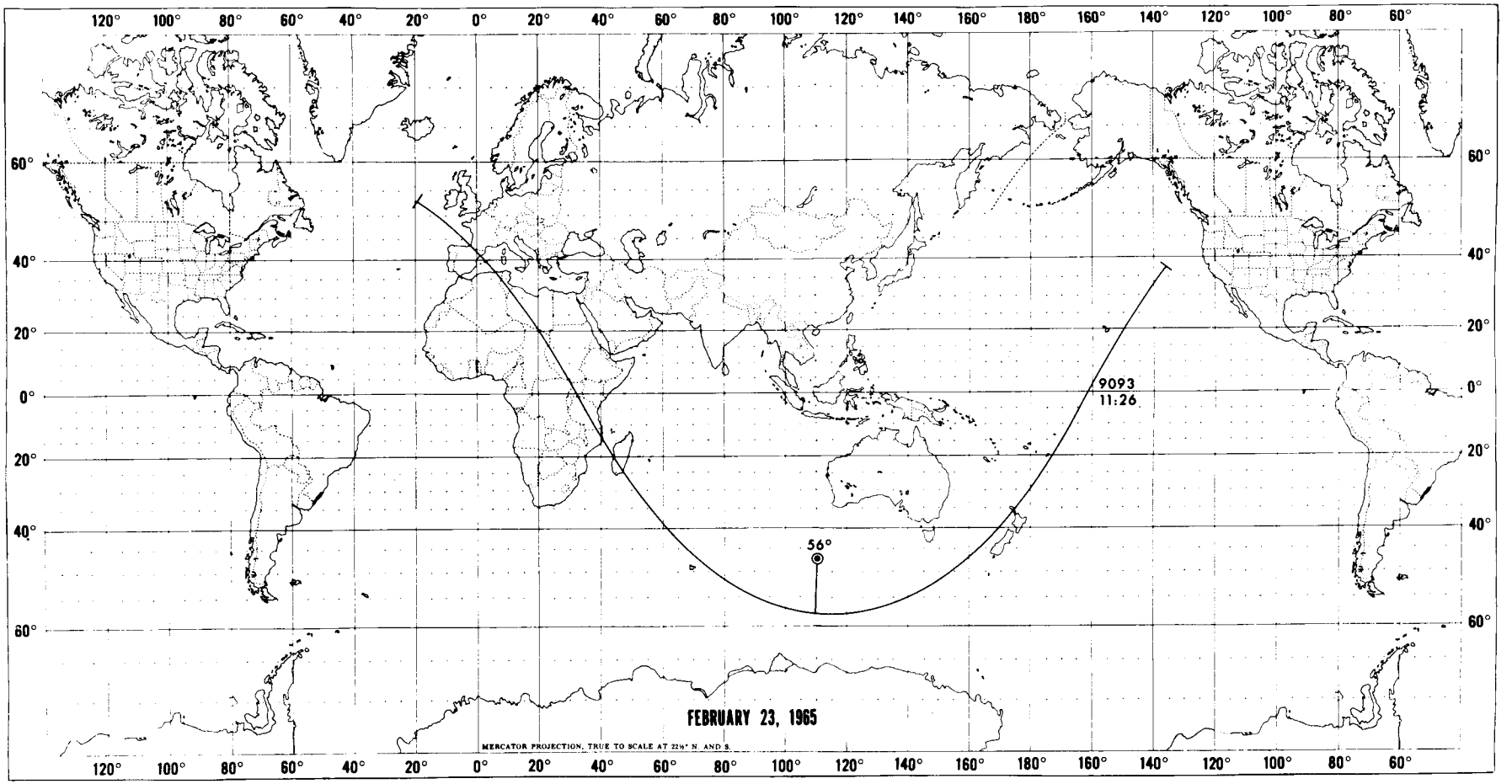
60°
40°
20°
0°
20°
40°
60°
17°
8976
13:30
8975
11:53
8974
10:15
8973
08:38
DIRECT SOLAR RADIATION INTERFERENCE IN
CHANNELS 3 AND 5: ORBITS 8959-8974
FEBRUARY 15, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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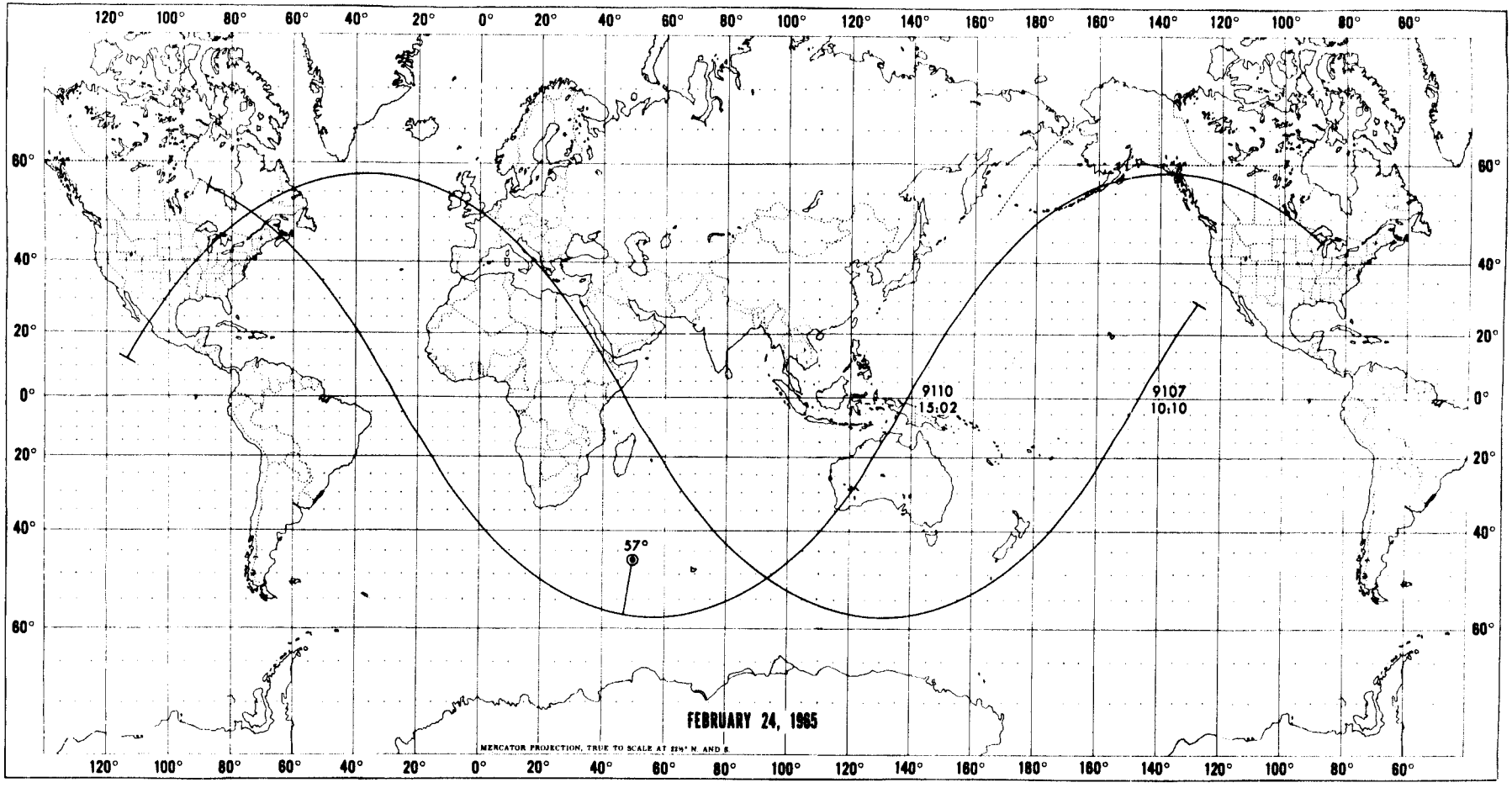
60°
40°
20°
0°
20°
40°
60°
9093
11:26
56°
FEBRUARY 23, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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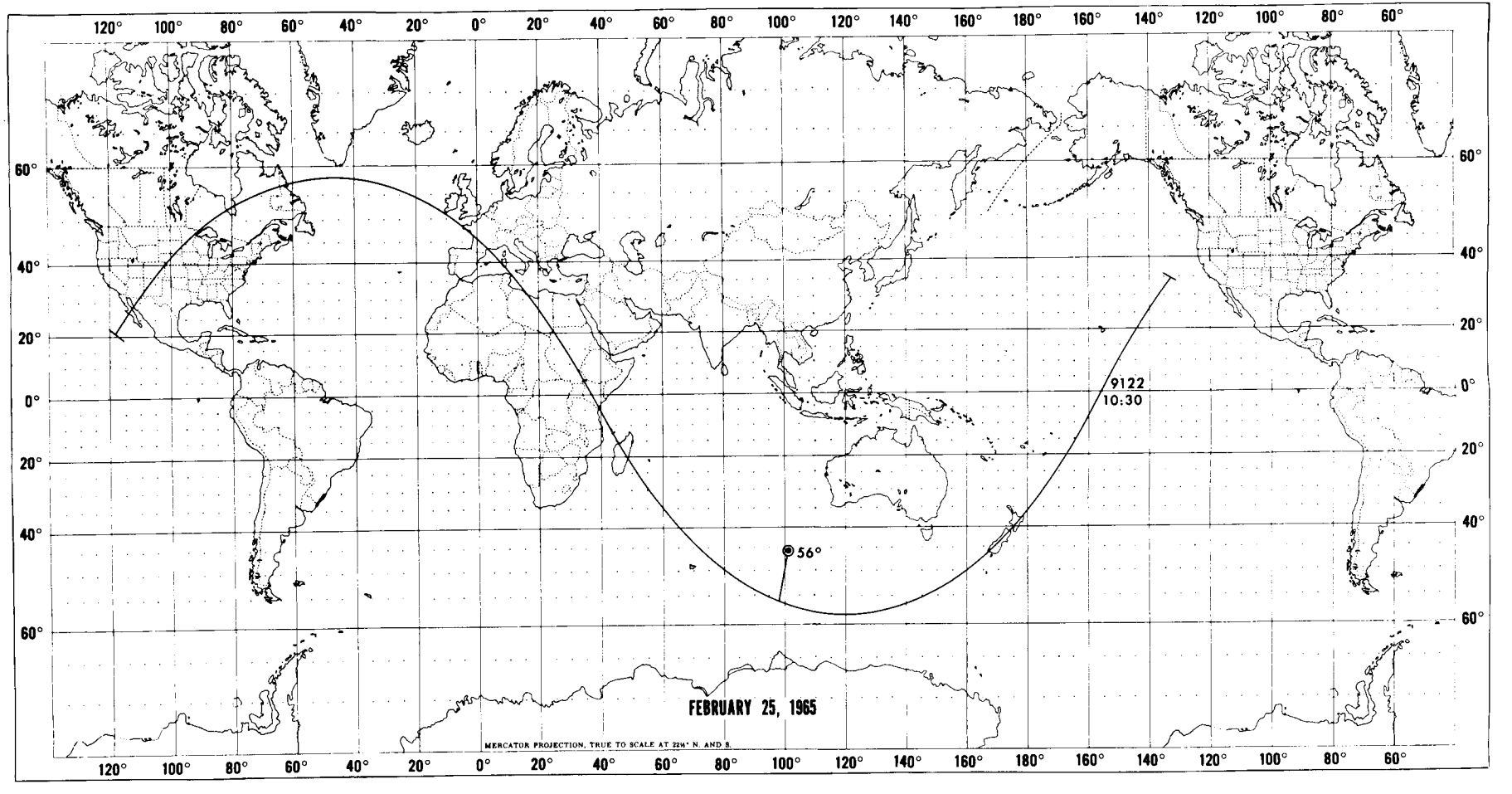
60°
40°
20°
0°
20°
40°
60°
9110
15:02
9107
10:10
57°
FEBRUARY 24, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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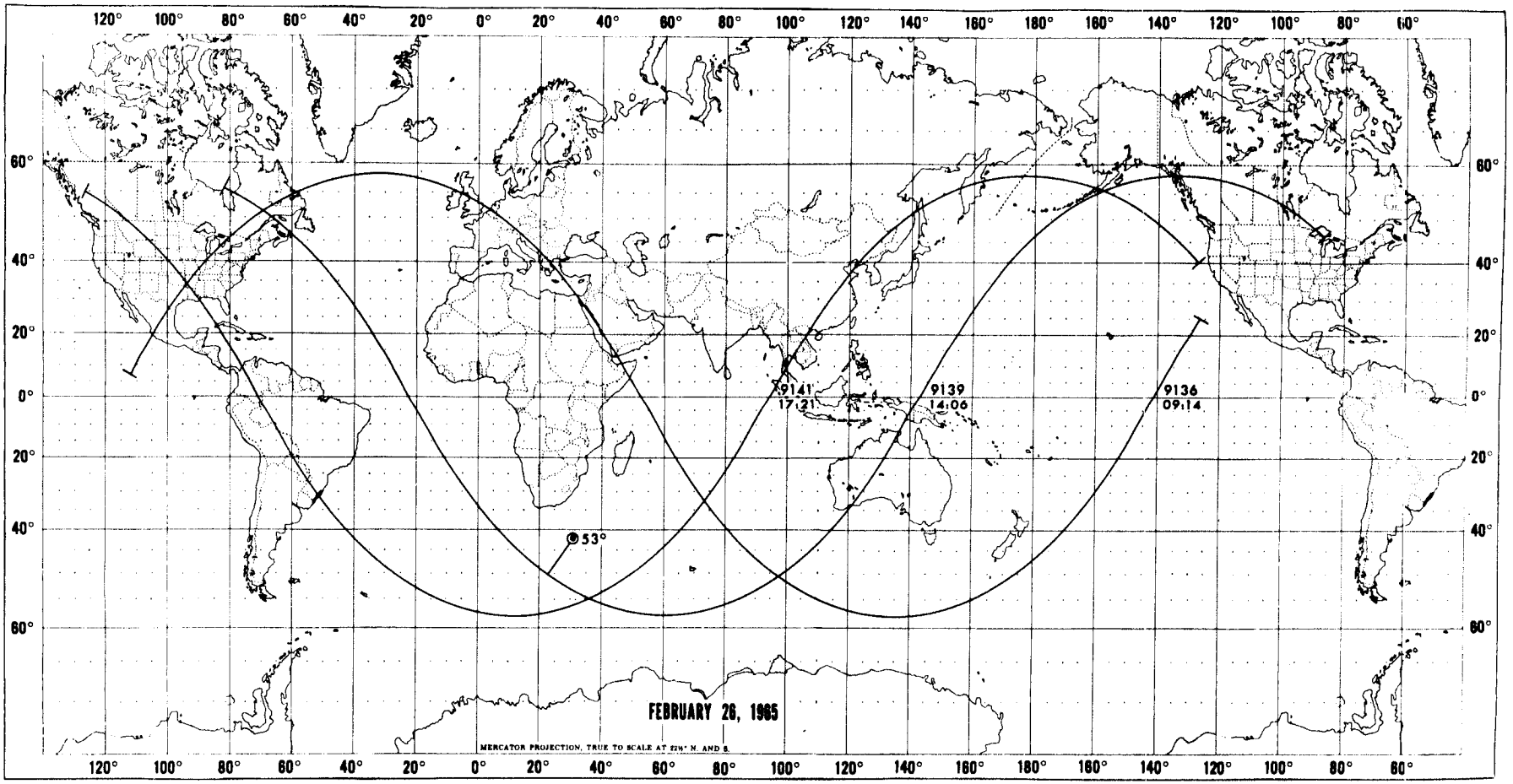
60°
40°
20°
0°
20°
40°
60°
9122
10:30
56°
FEBRUARY 25, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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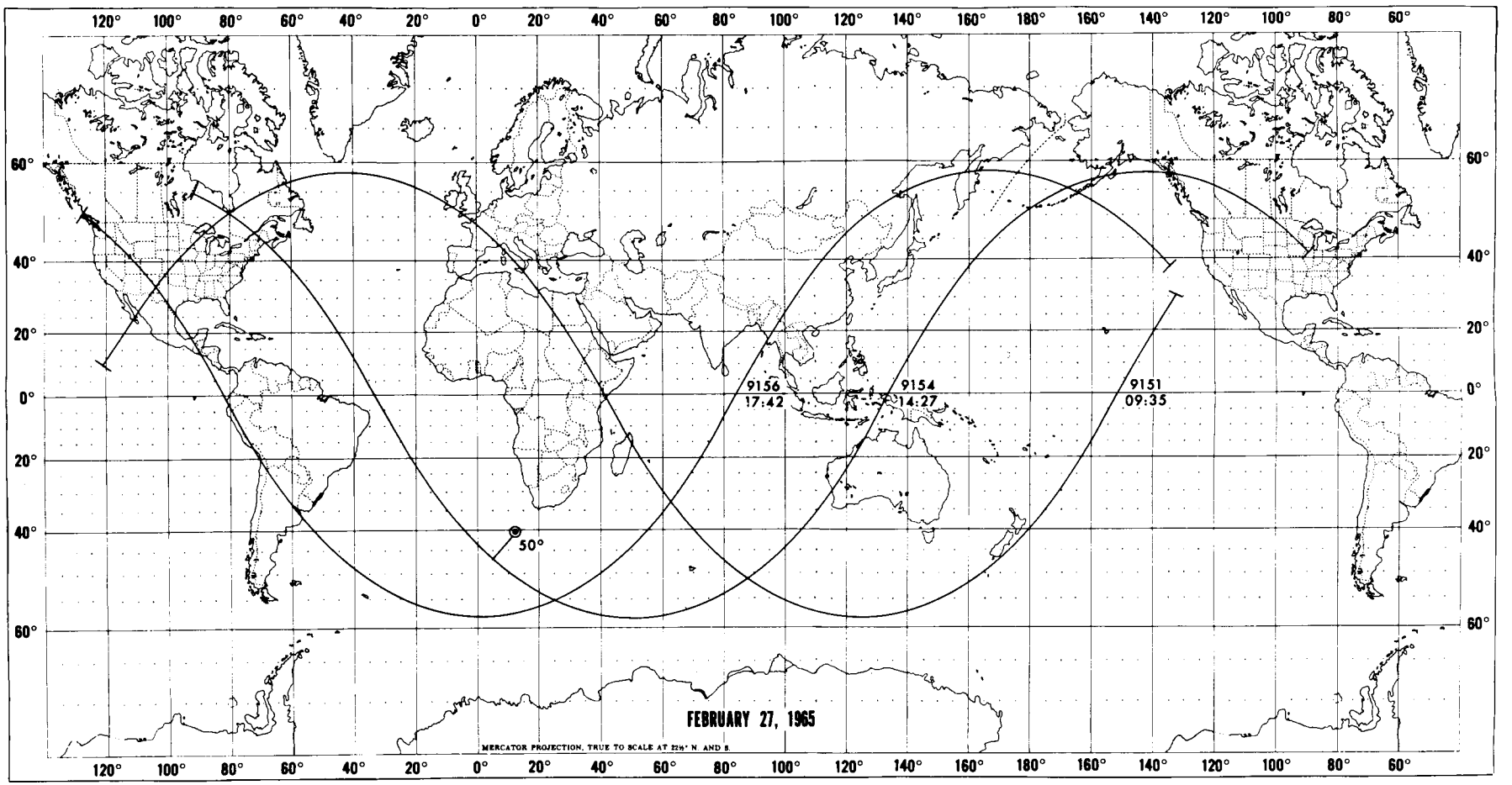
60°
40°
20°
0°
20°
40°
60°
9141
17:21
9139
14:06
9136
09:14
53°
FEBRUARY 26, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 52½° N. AND S.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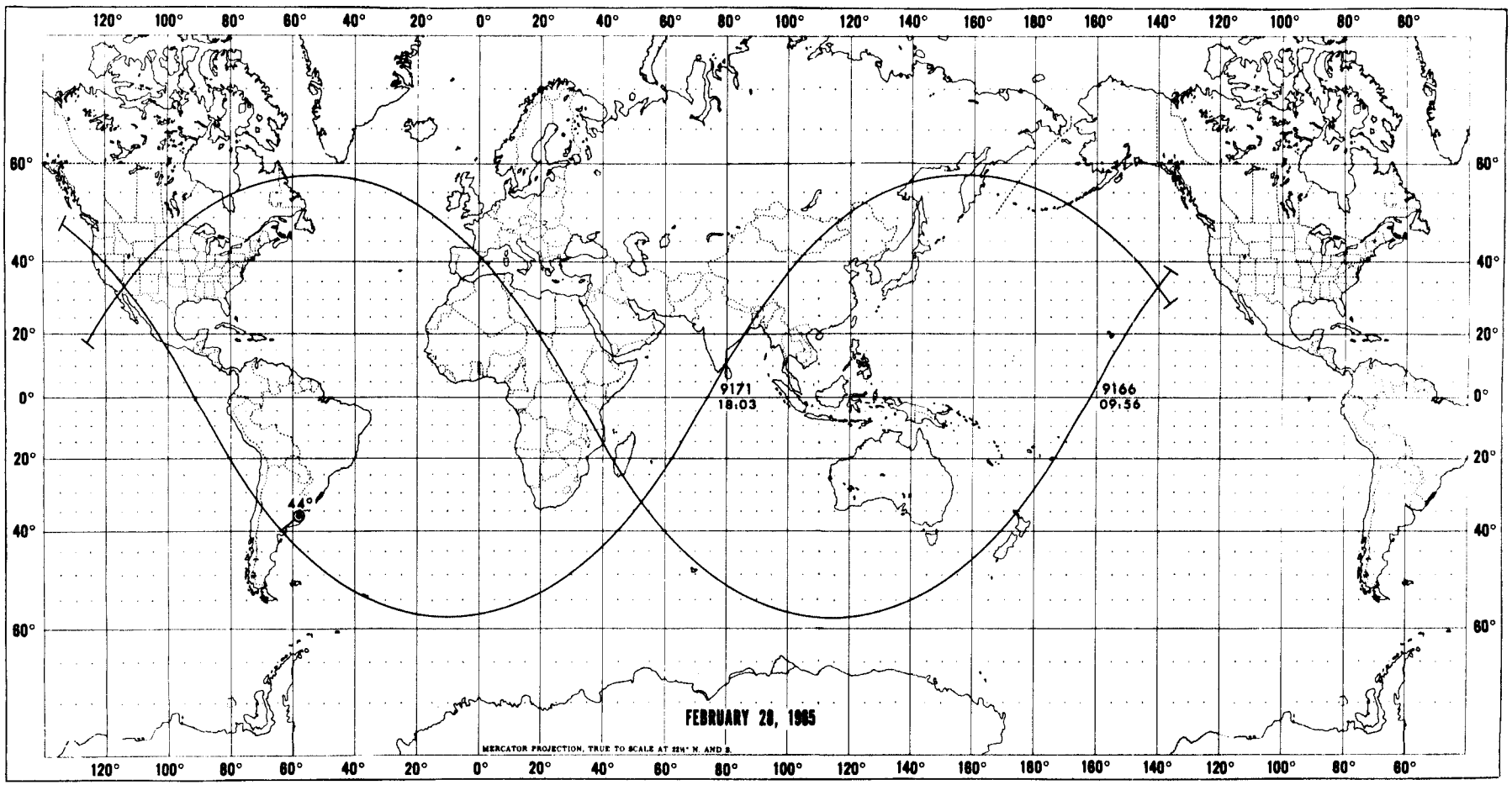
60°
40°
20°
0°
20°
40°
60°
9156
17:42
9154
14:27
9151
09:35
50°
FEBRUARY 27, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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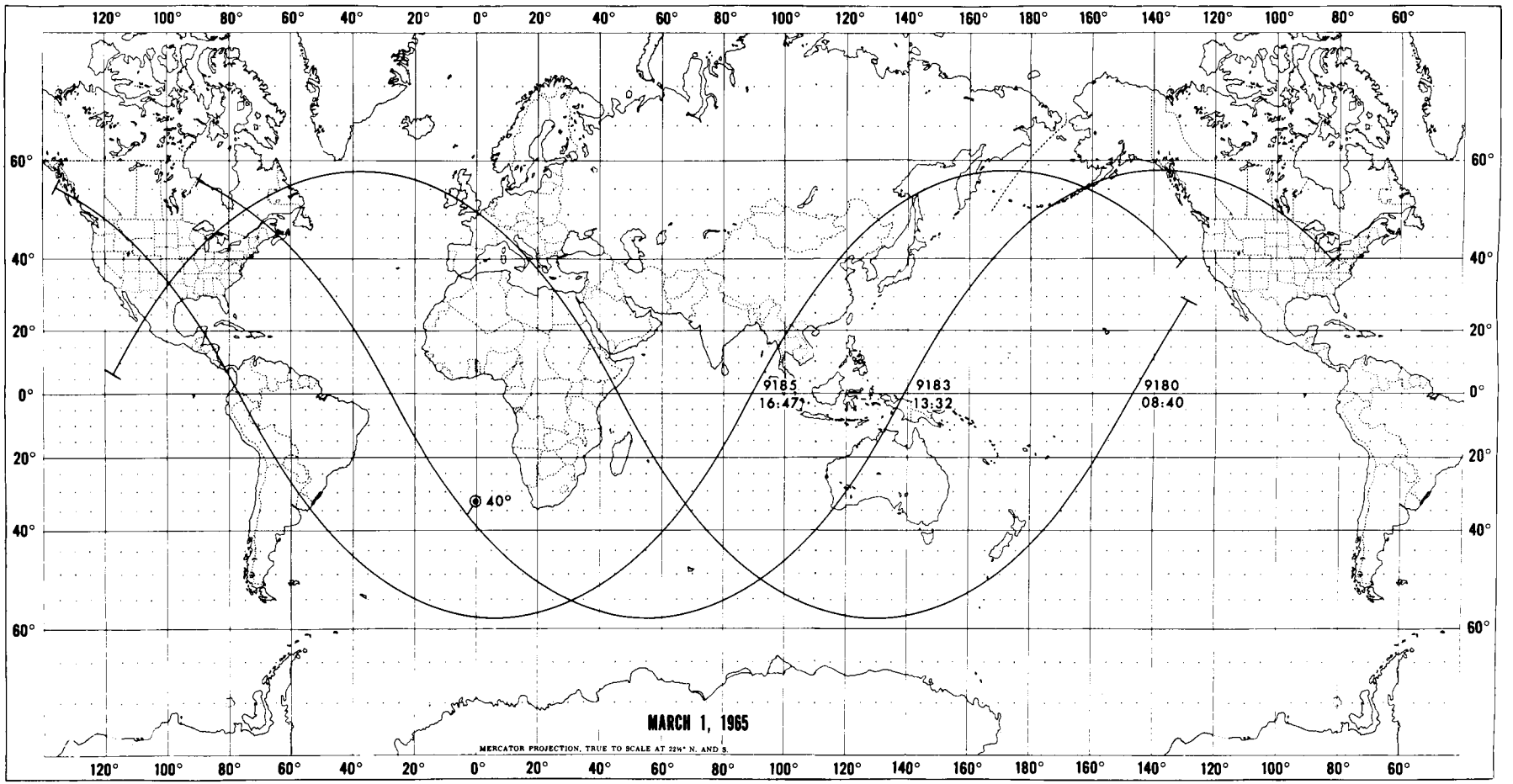
60°
40°
20°
0°
20°
40°
60°
9171
18:03
9166
09:56
44°
FEBRUARY 20, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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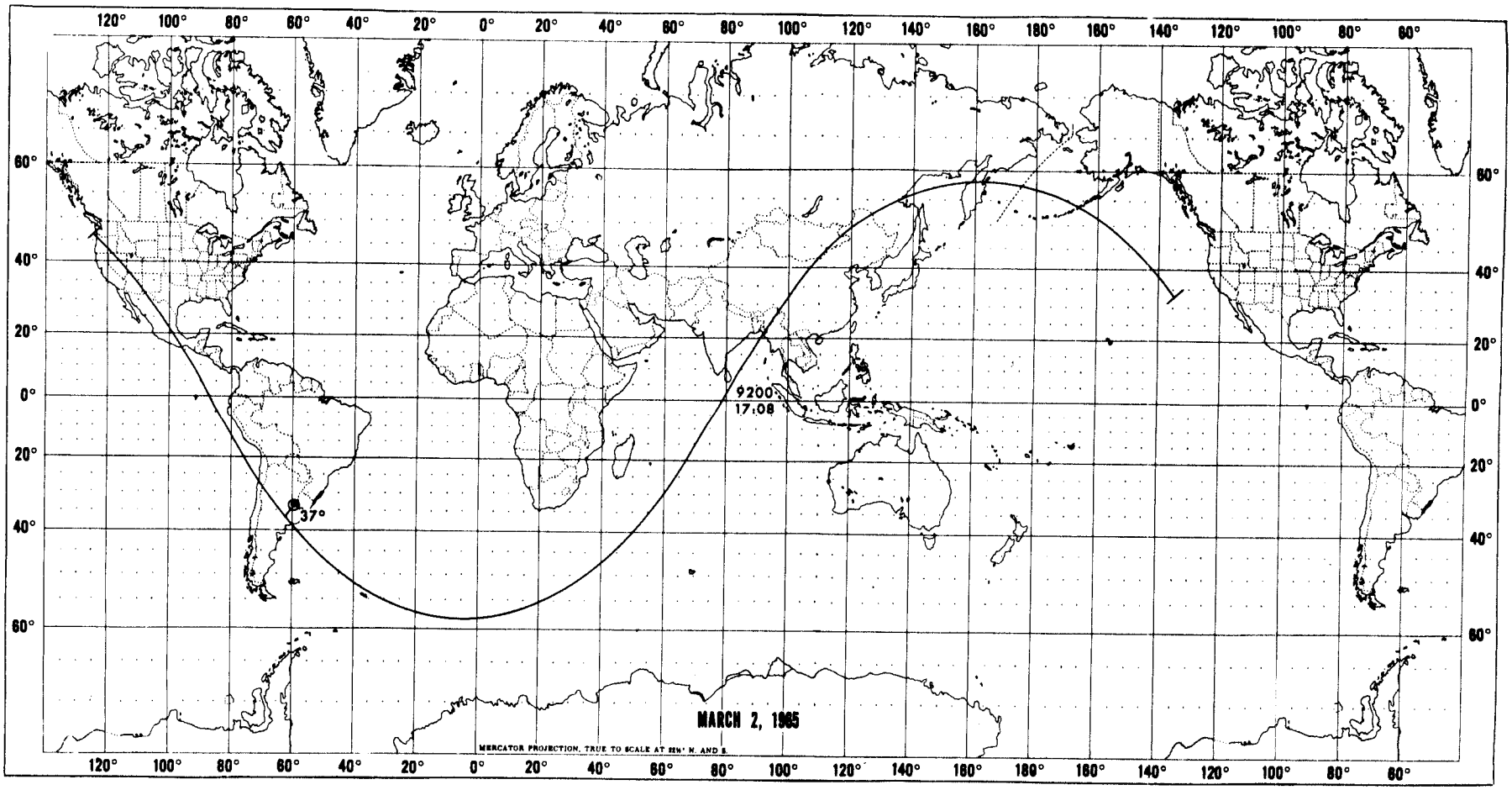
60°
40°
20°
0°
20°
40°
60°
9185
16:47
9183
13:32
9180
08:40
40°
MARCH 1, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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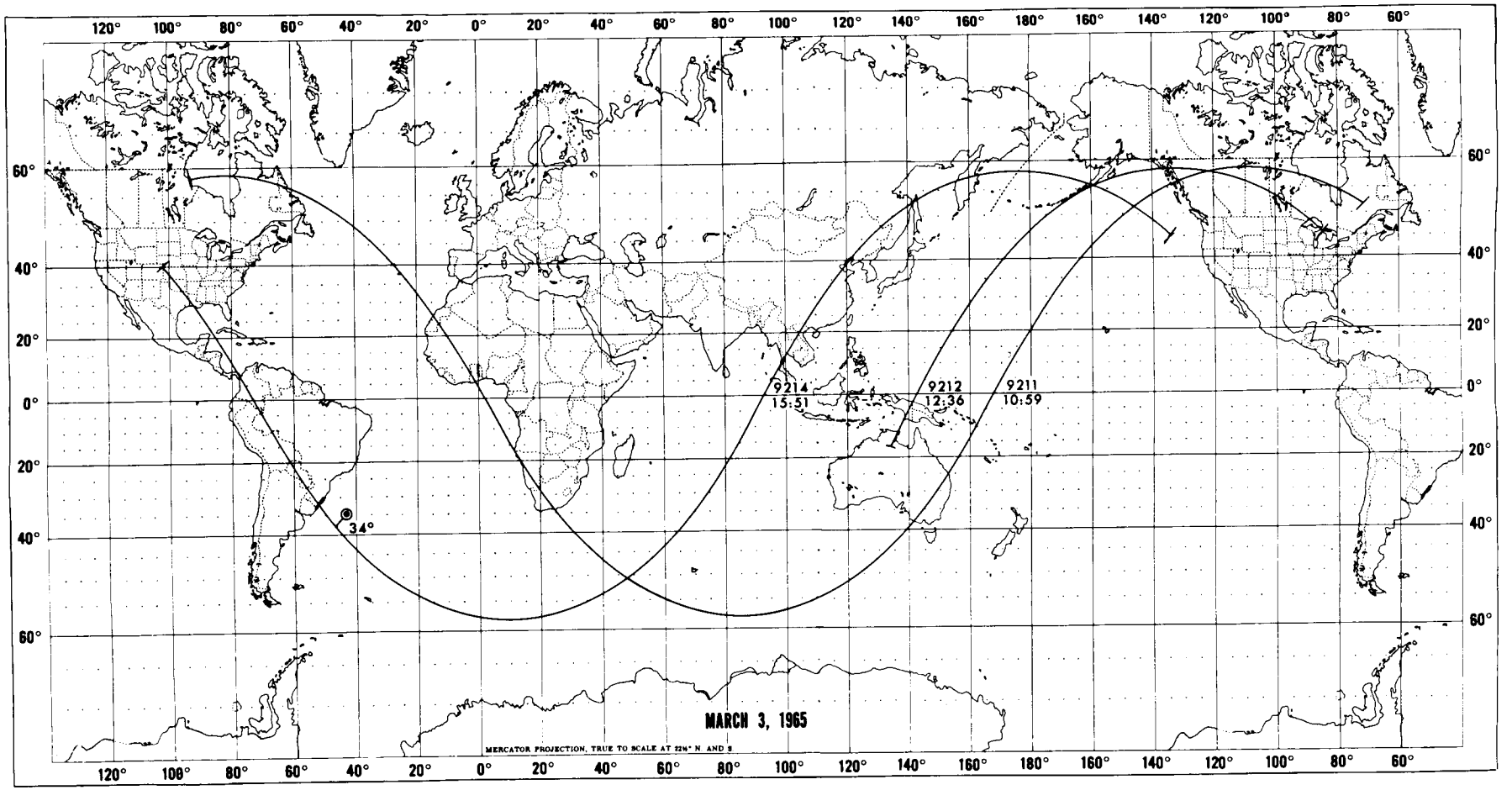
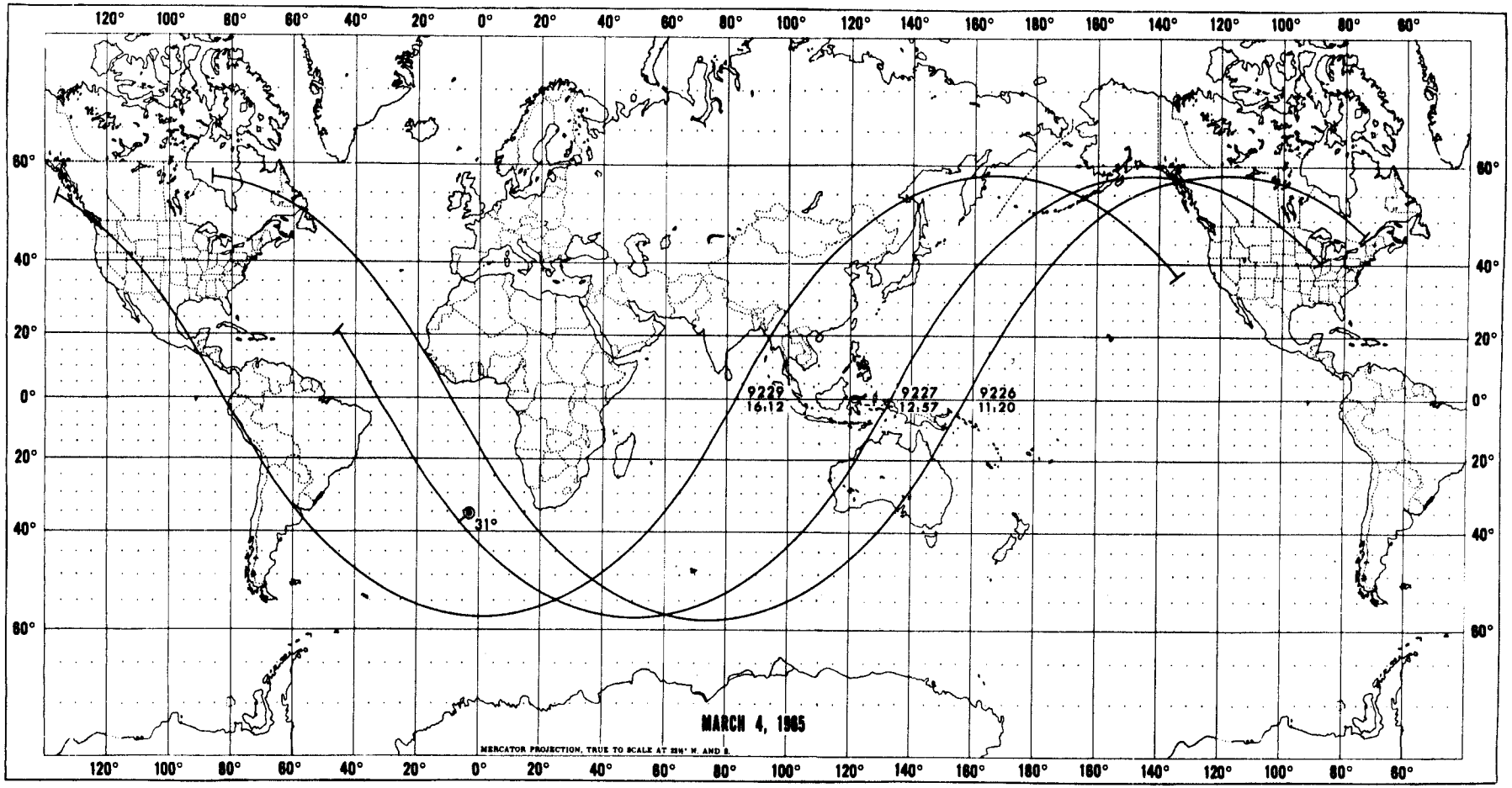
60°
40°
20°
0°
20°
40°
60°
9200
17.08
37°
MARCH 2, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
9214
15:51
9212
12:36
9211
10:59
34°
MARCH 3, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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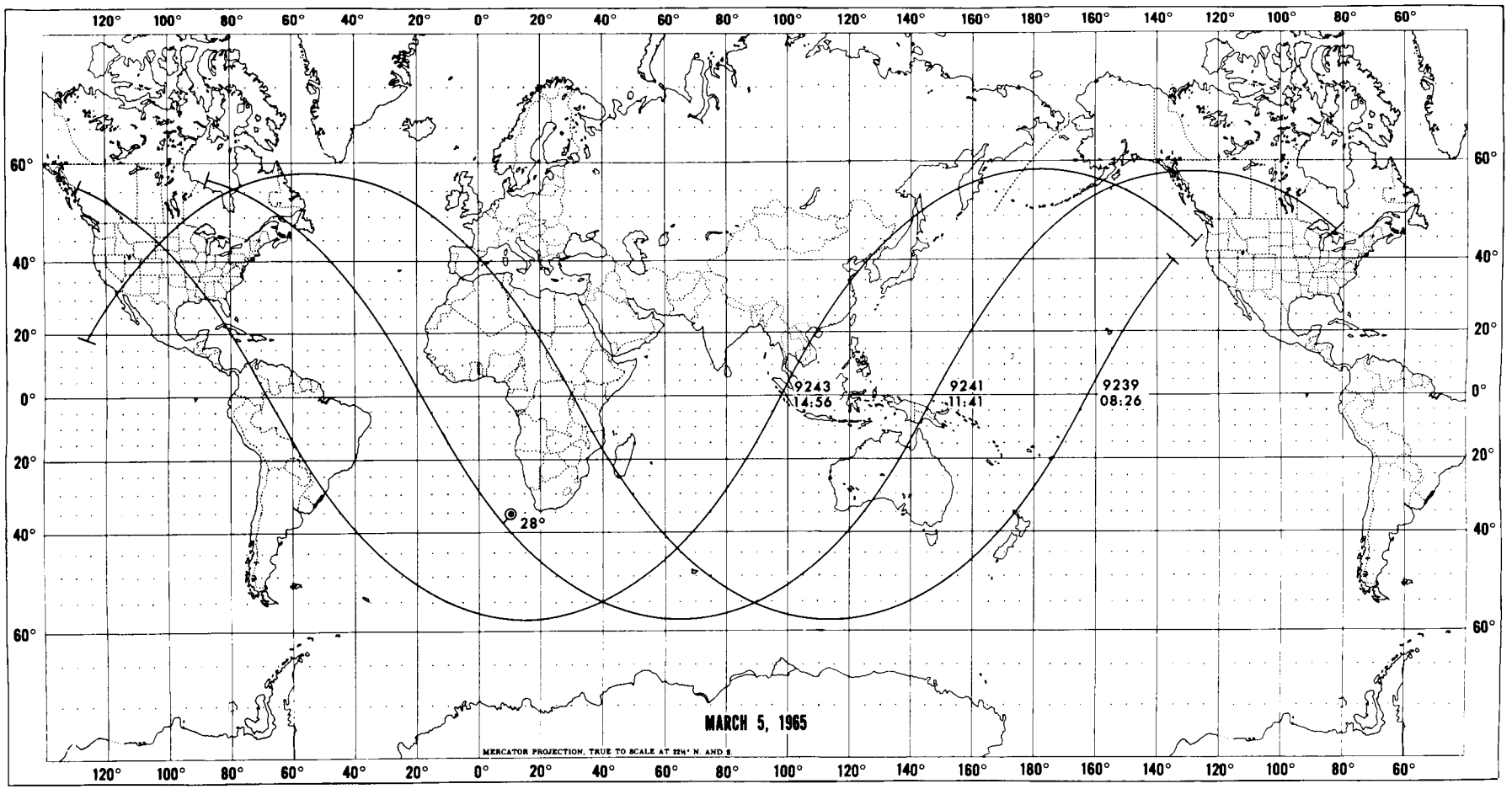
60°
40°
20°
0°
20°
40°
60°
9229
16.12
9227
12.57
9226
11.20
31°
MARCH 4, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 28½° N. AND S.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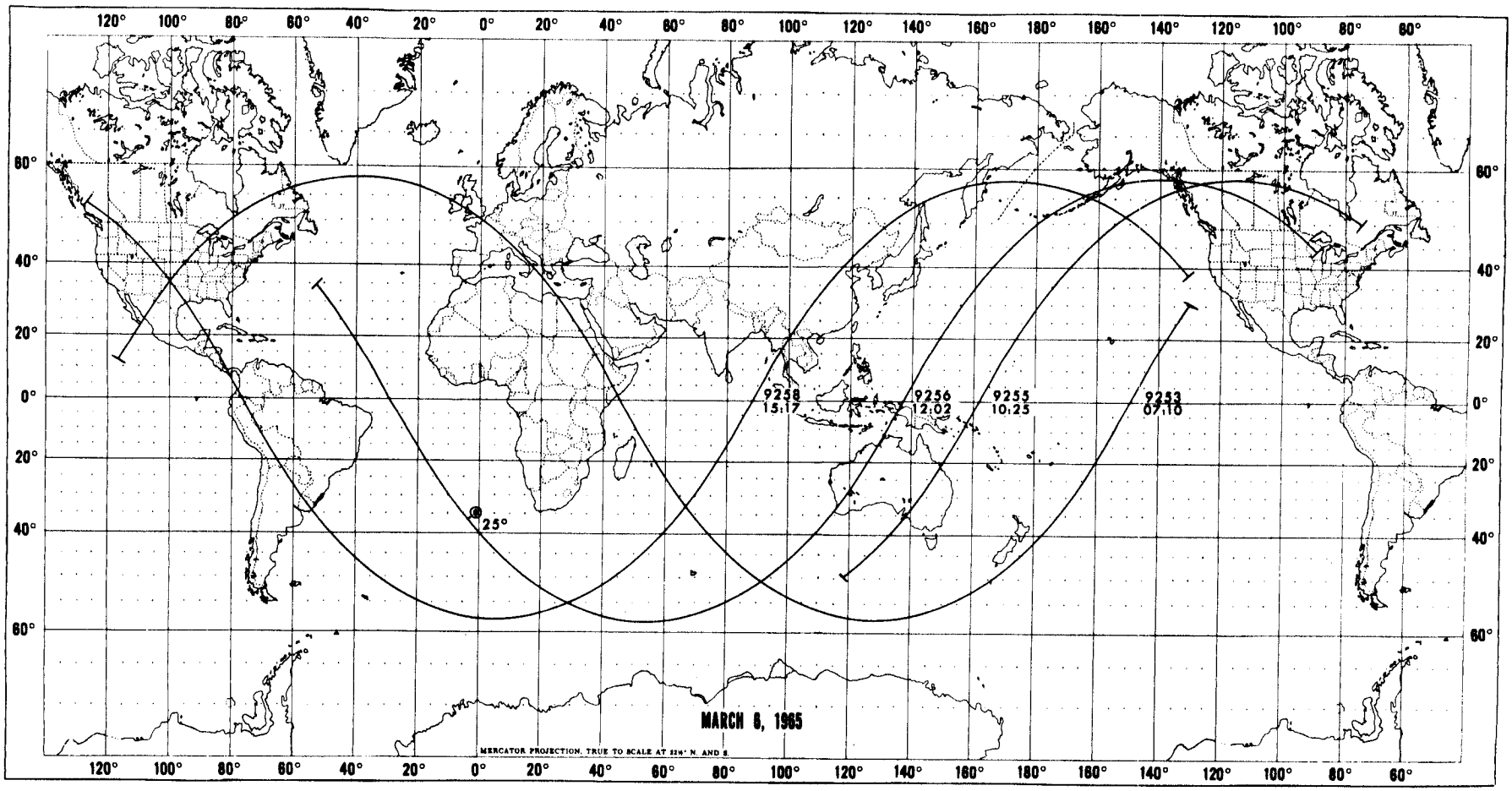
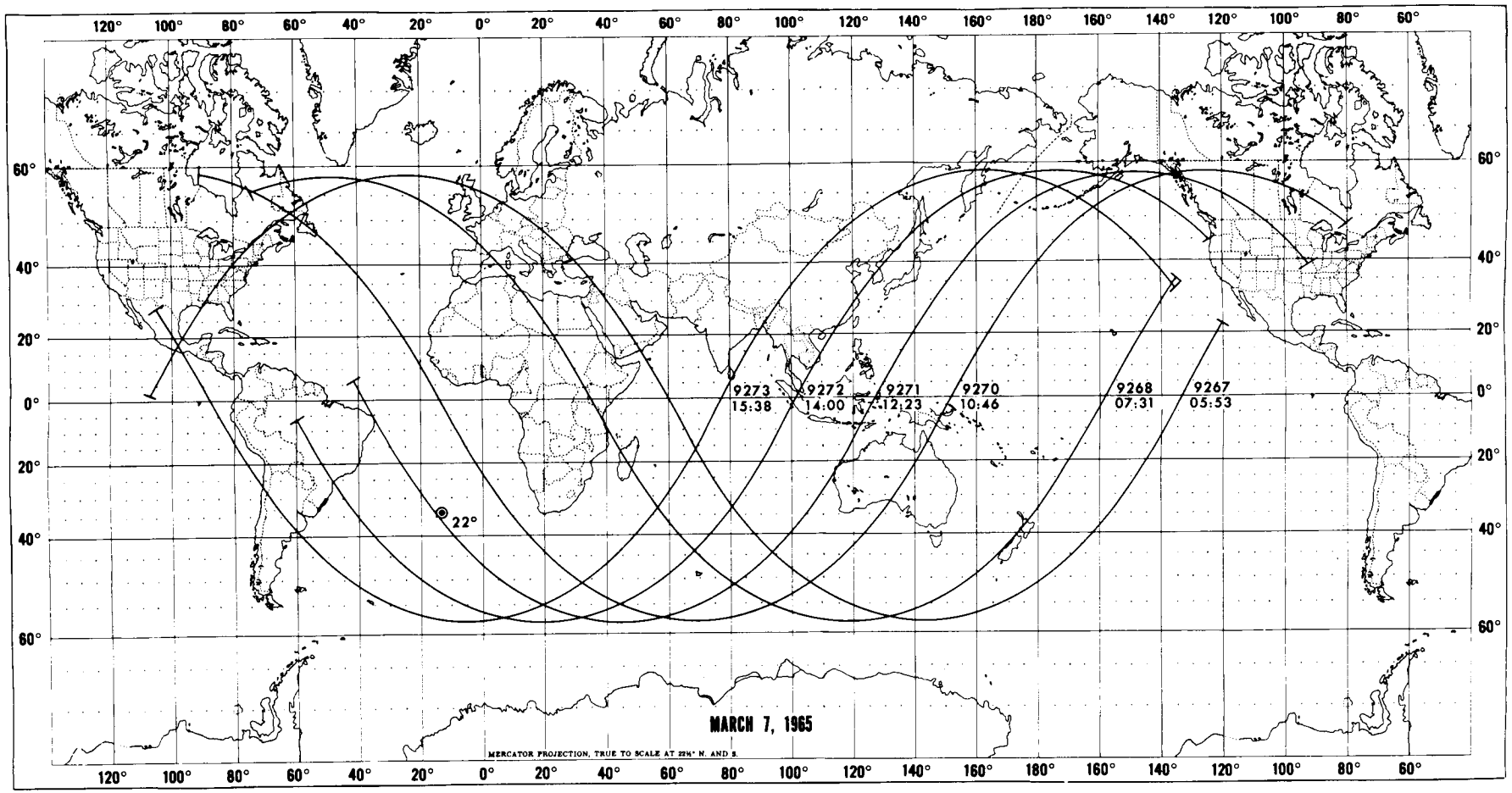
60°
40°
20°
0°
20°
40°
60°
9243
14:56
9241
11:41
9239
08:26
28°
MARCH 5, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
80°
40°
20°
0°
20°
40°
60°
9258
15:17
9256
2:02
9255
10:25
9253
07:10
25°
MARCH 8, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 32½° N. AND S.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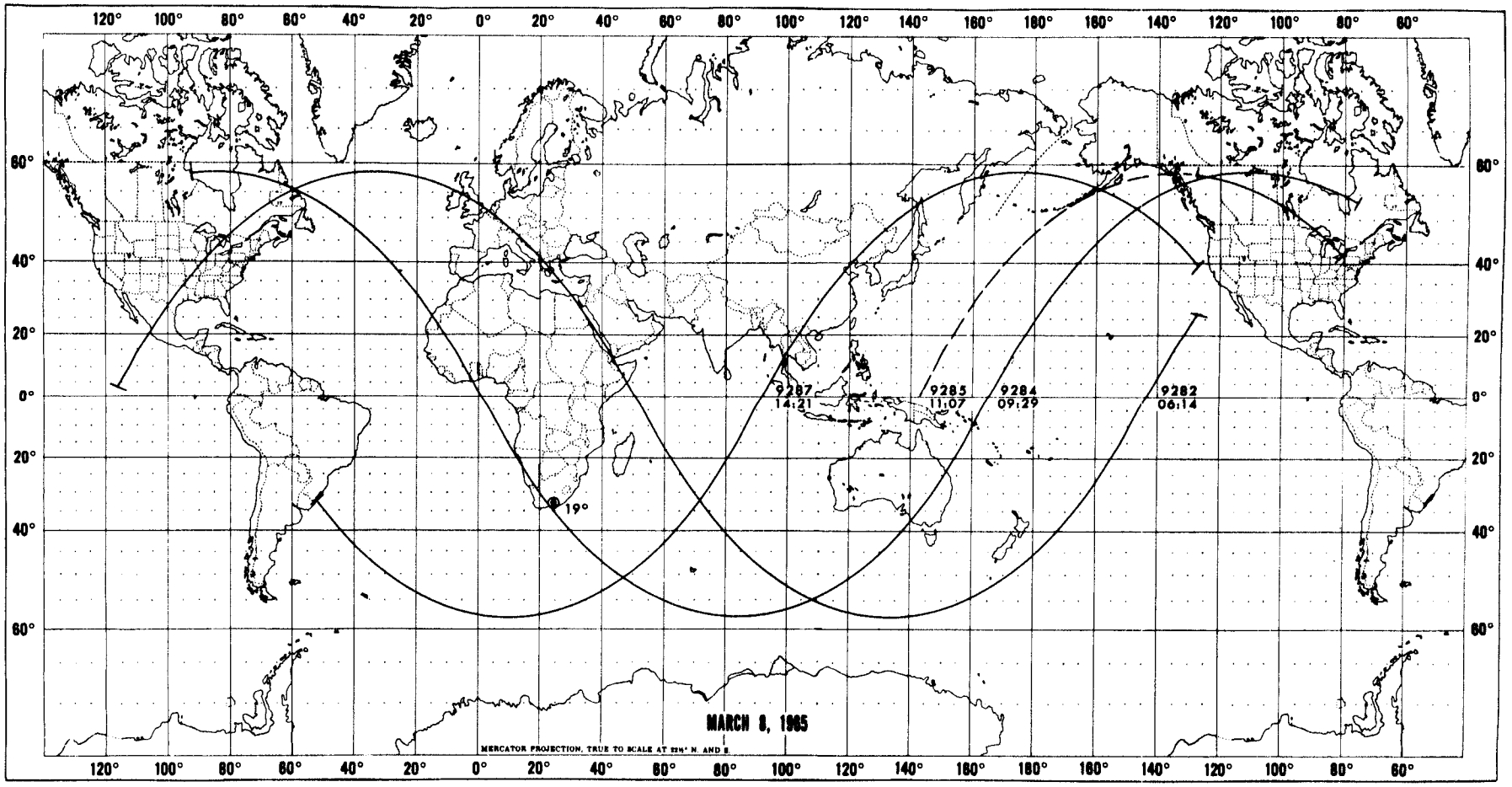
60°
40°
20°
0°
20°
40°
60°
9273
15:38
9272
14:00
9271
12:23
9270
10:46
9268
07:31
9267
05:53
22°
MARCH 7, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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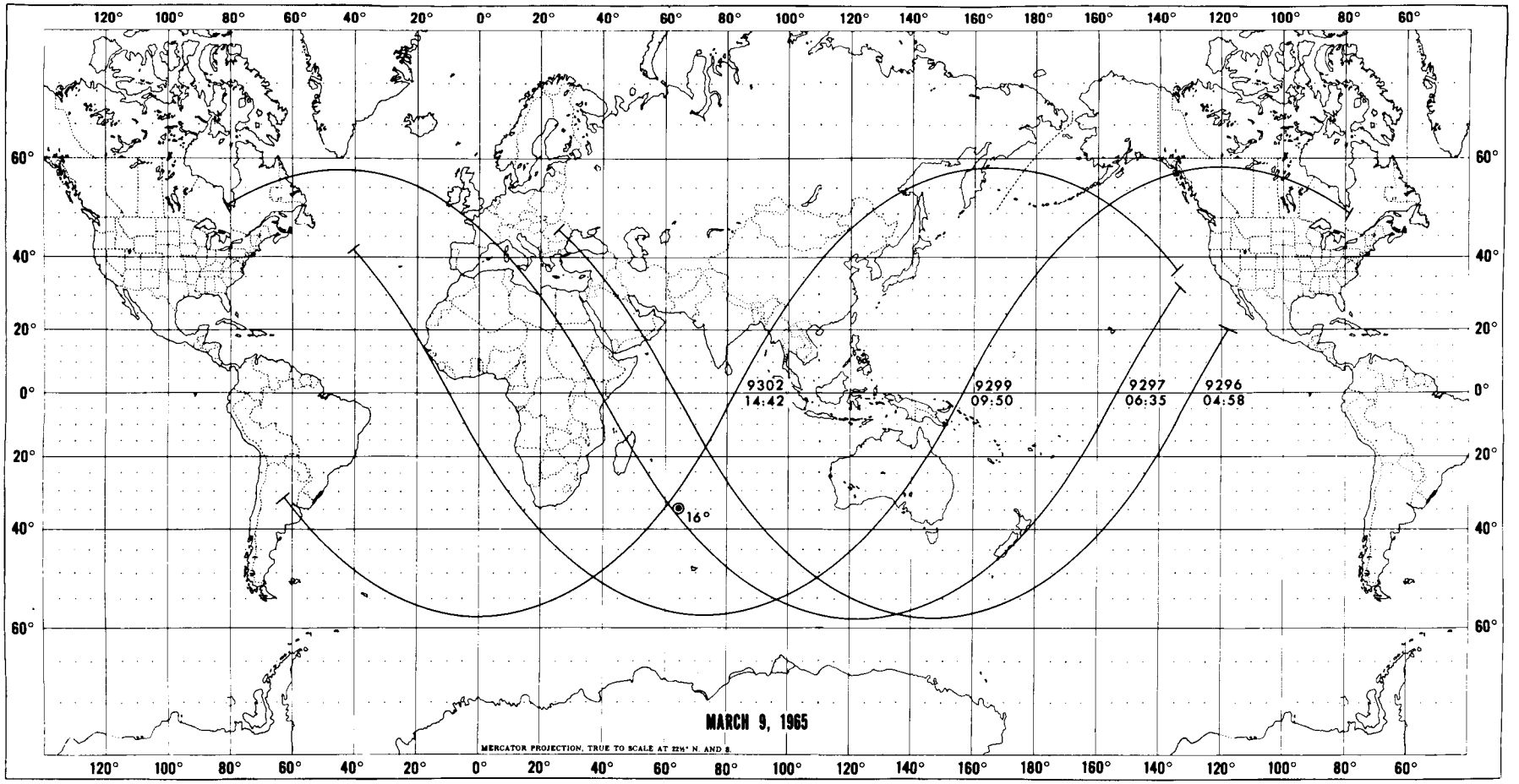
60°
40°
20°
0°
20°
40°
60°
9287
14:21
9285
11:07
9284
09:29
9282
06:14
19°
MARCH 8, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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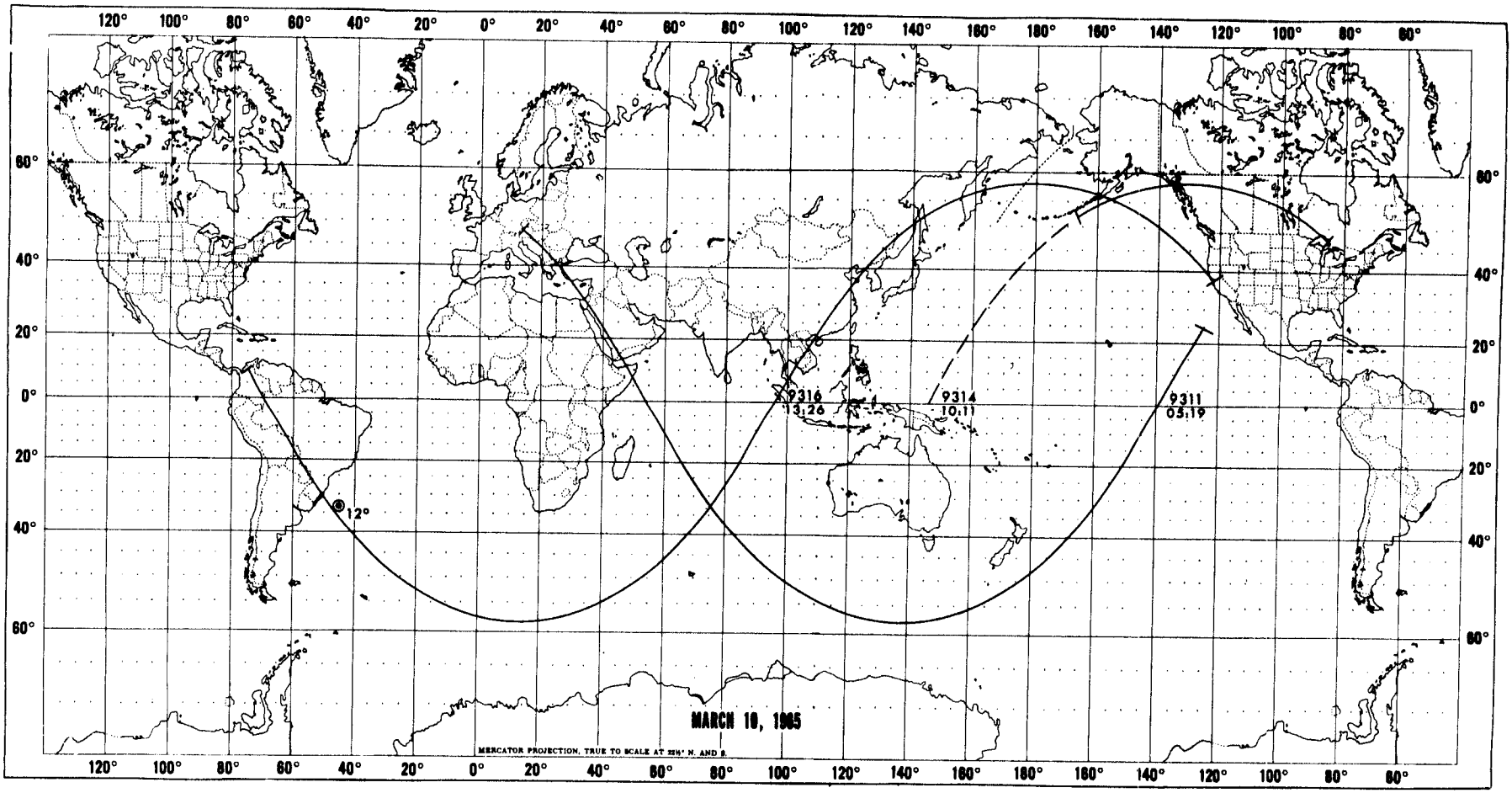
60°
40°
20°
0°
20°
40°
60°
9302
14:42
9299
09:50
9297
06:35
9296
04:58
16°
MARCH 9, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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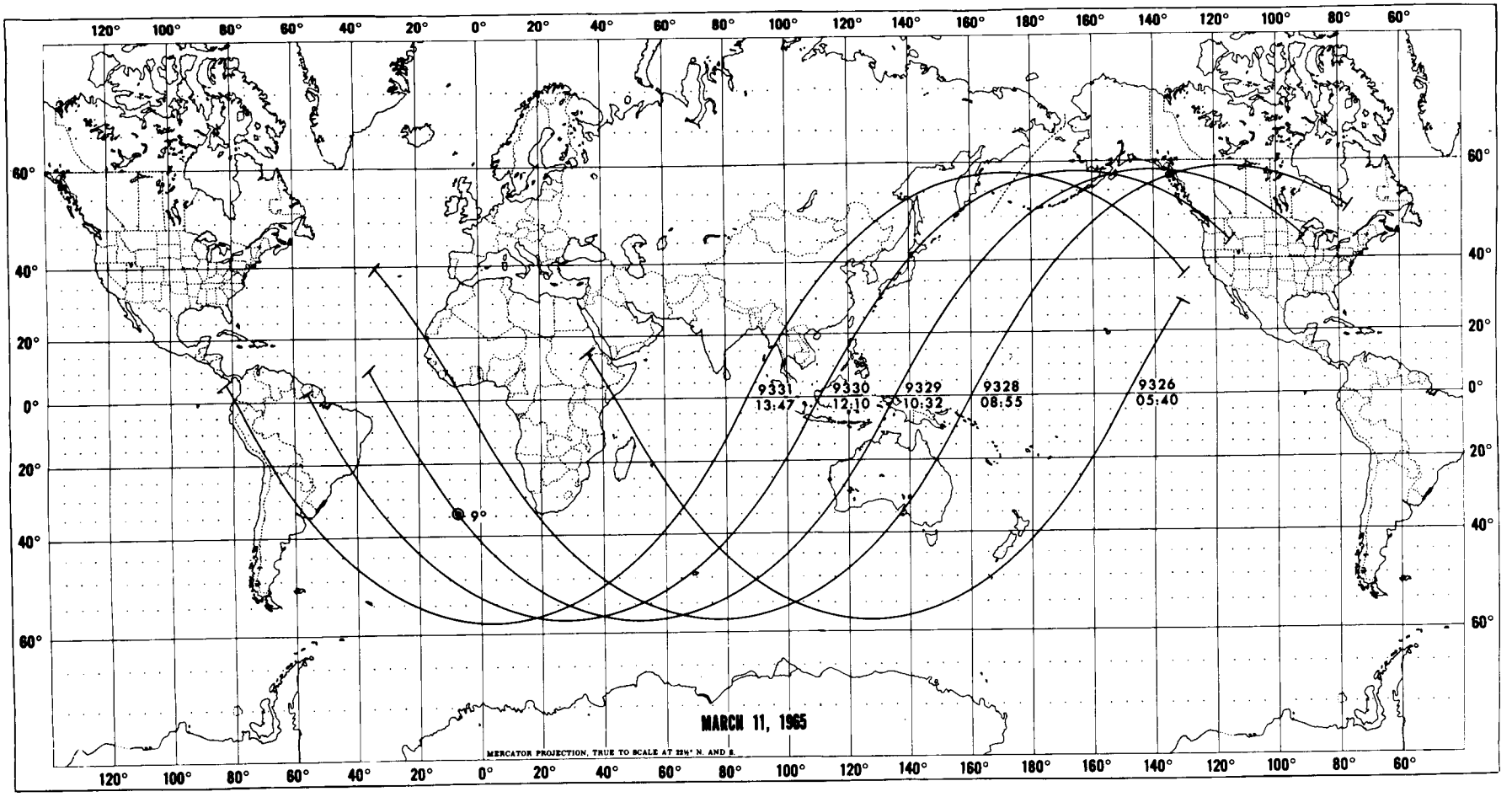
60°
40°
20°
0°
20°
40°
60°
9316
13:26
9314
10:11
9311
05:19
12°
MARCH 10, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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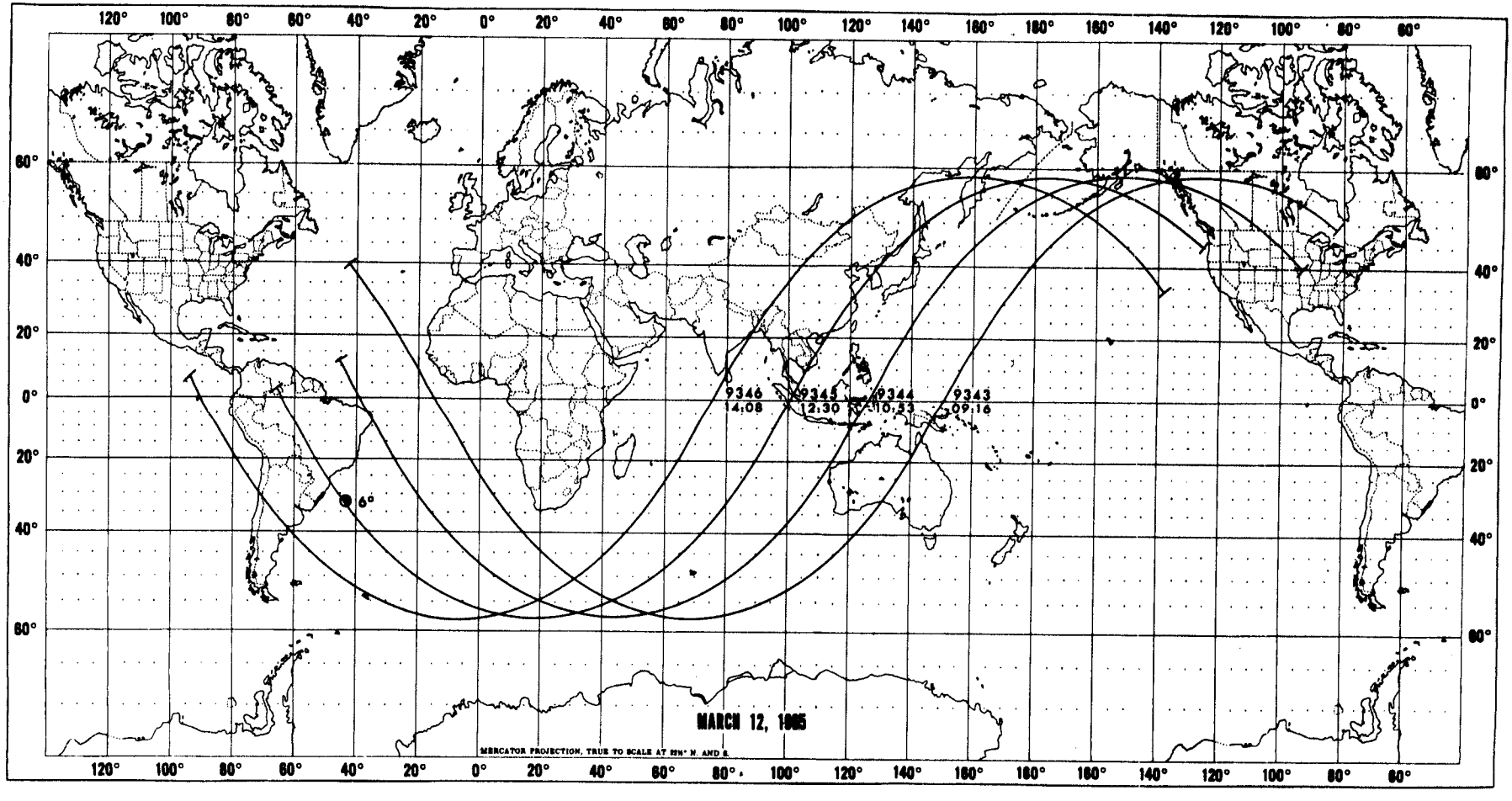
60°
40°
20°
0°
20°
40°
60°
9331
13:47
9330
12:10
9329
10:32
9328
08:55
9326
05:40
9°
MARCH 11, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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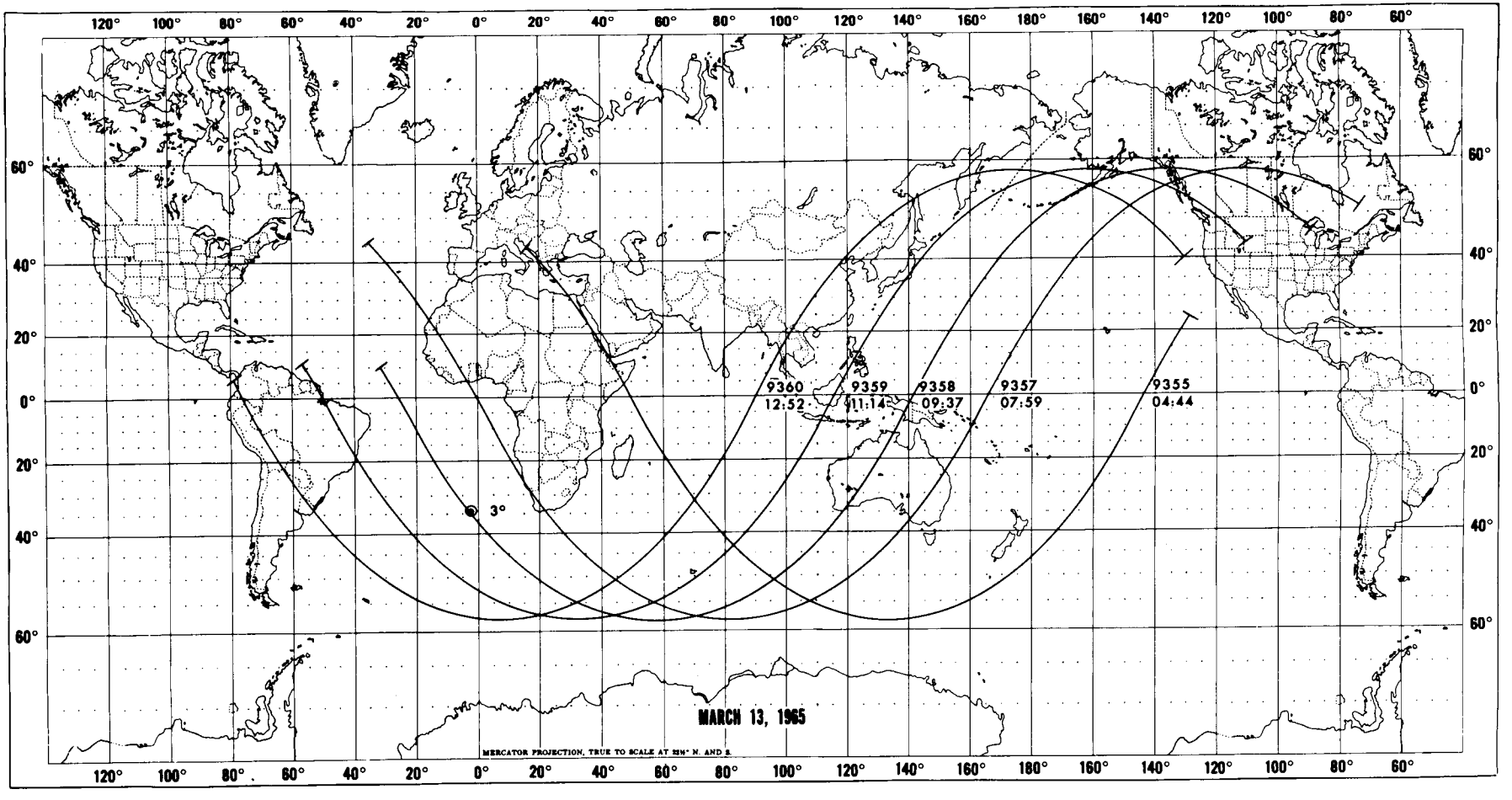
60°
40°
20°
0°
20°
40°
60°
9346
14.08
9345
12.30
9344
10.53
9343
09.16
6°
MARCH 12, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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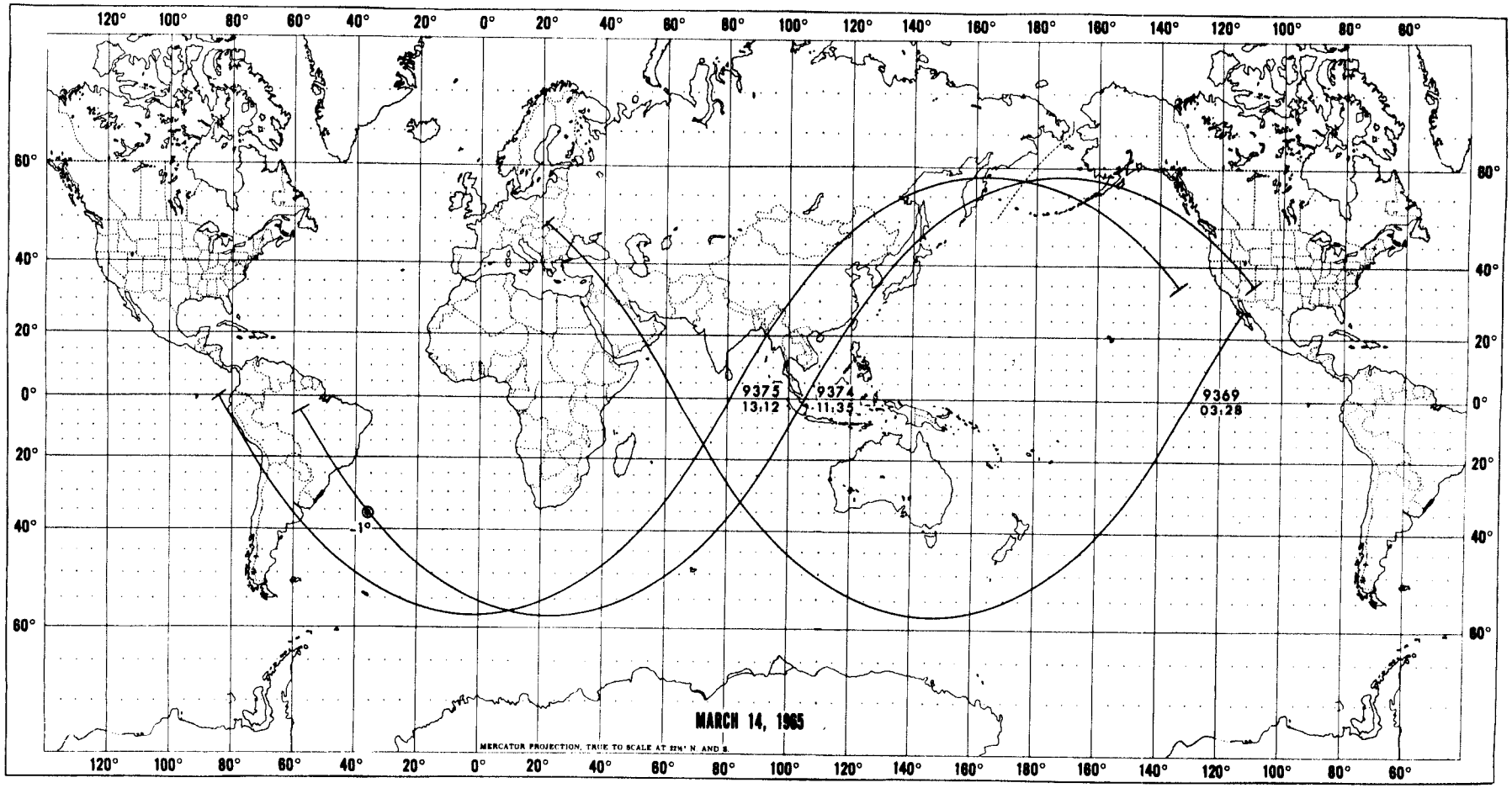
60°
40°
20°
0°
20°
40°
60°
9360
12:52
9359
11:14
9358
09:37
9357
07:59
9355
04:44
3°
MARCH 13, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 33½° N. AND S.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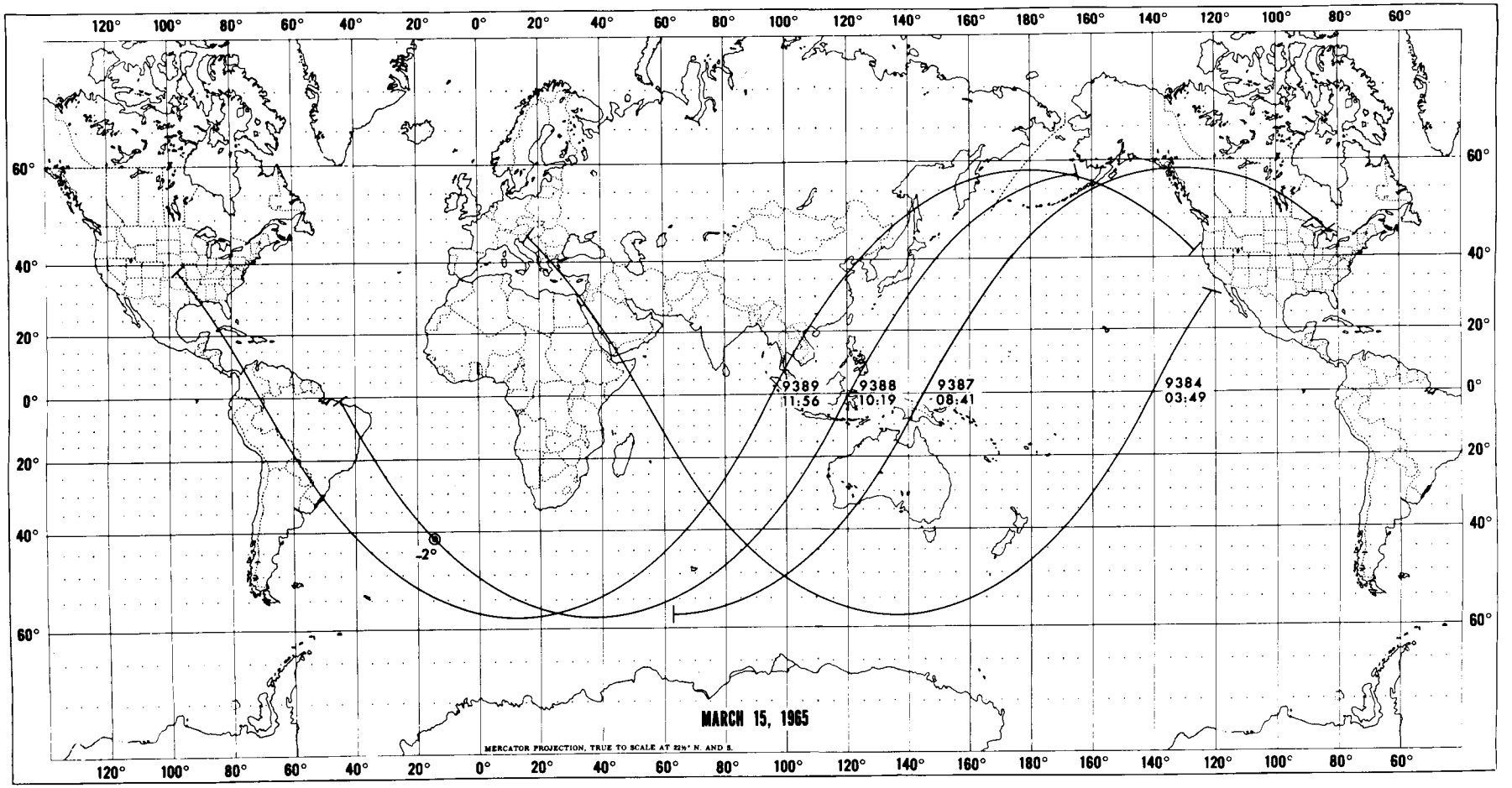
60°
40°
20°
0°
20°
40°
60°
9375
13,12
9374
11,35
9369
03,28
1°
MARCH 14, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N AND S.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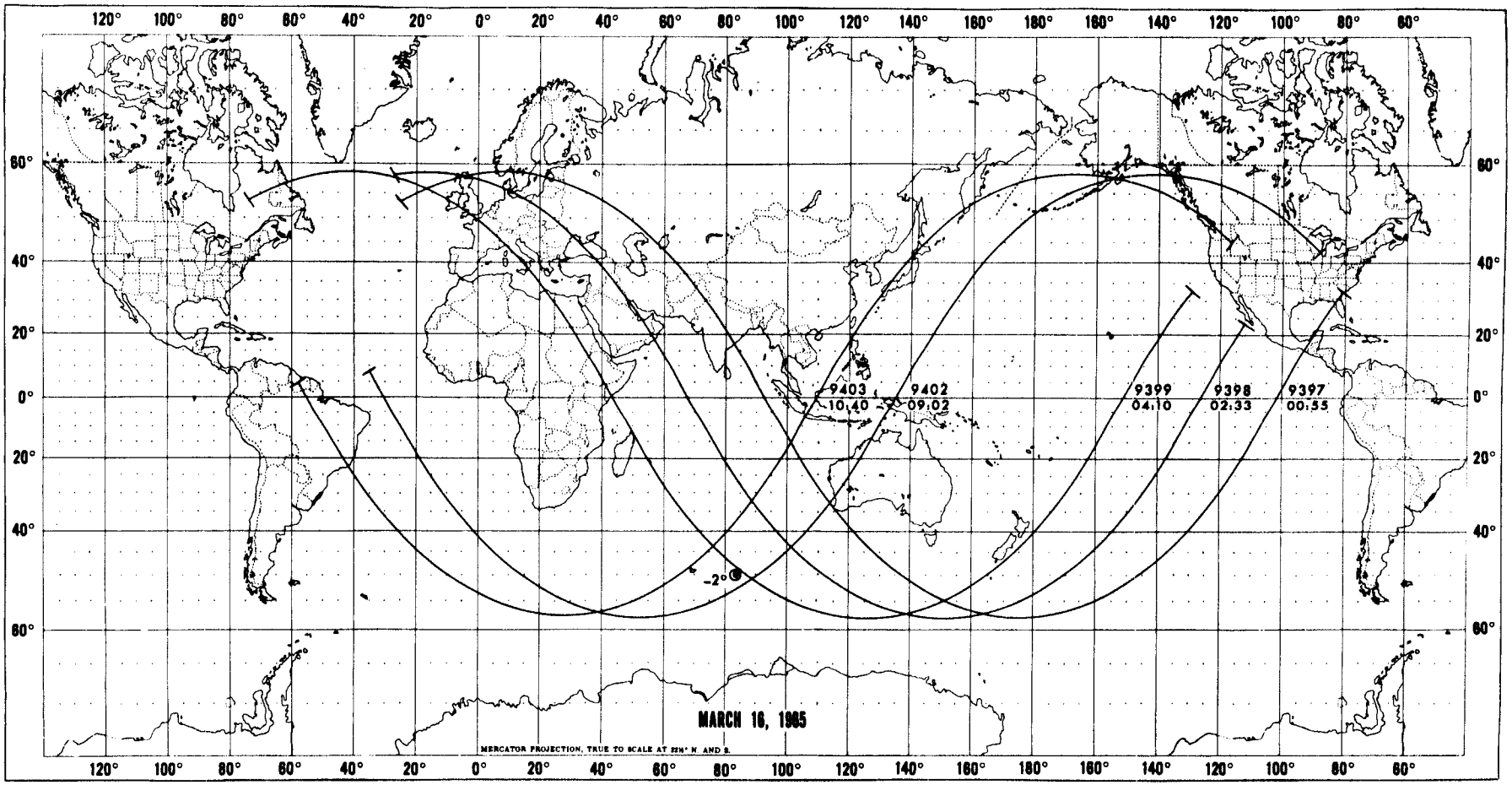
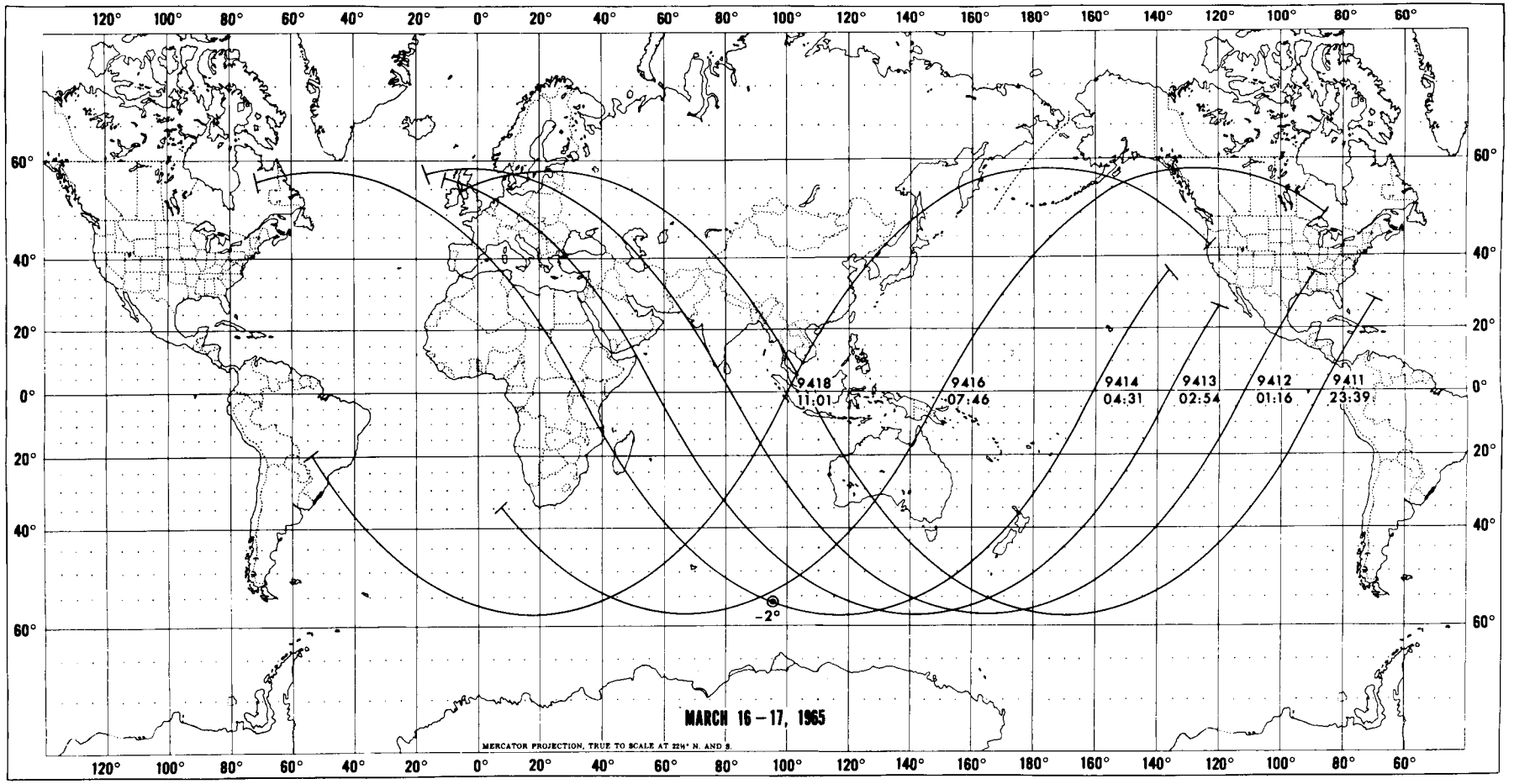
60°
40°
20°
0°
20°
40°
60°
9389
11:56
9388
10:19
9387
08:41
9384
03:49
-2°
MARCH 15, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
9403
10:40
9402
09:02
9399
04:10
9398
02:33
9397
00:55
-2°
MARCH 16, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 28½° N. AND S.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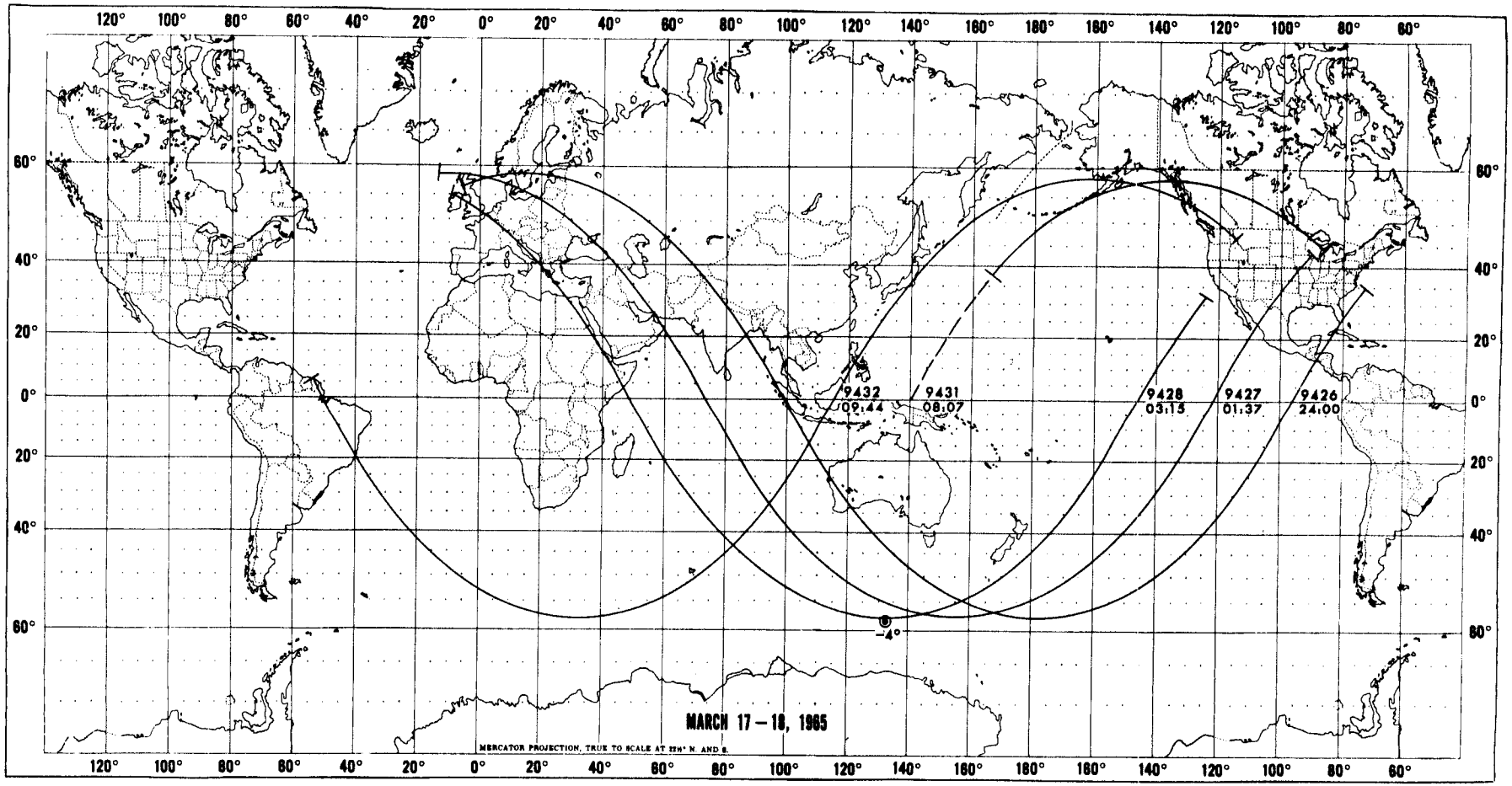
60°
40°
20°
0°
20°
40°
60°
9418
11:01
9416
07:46
9414
04:31
9413
02:54
9412
01:16
9411
23:39
-2°
MARCH 16 – 17, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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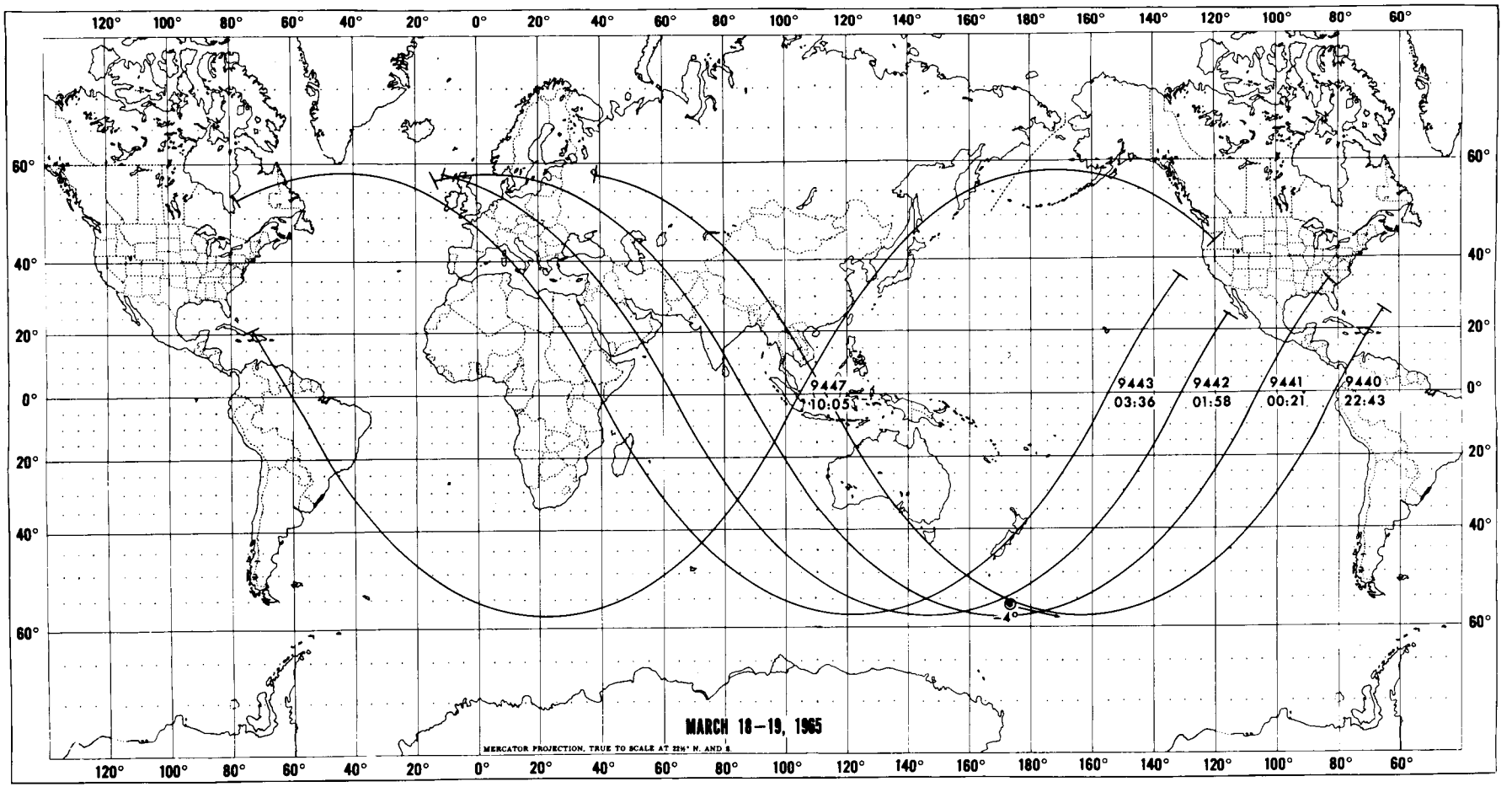
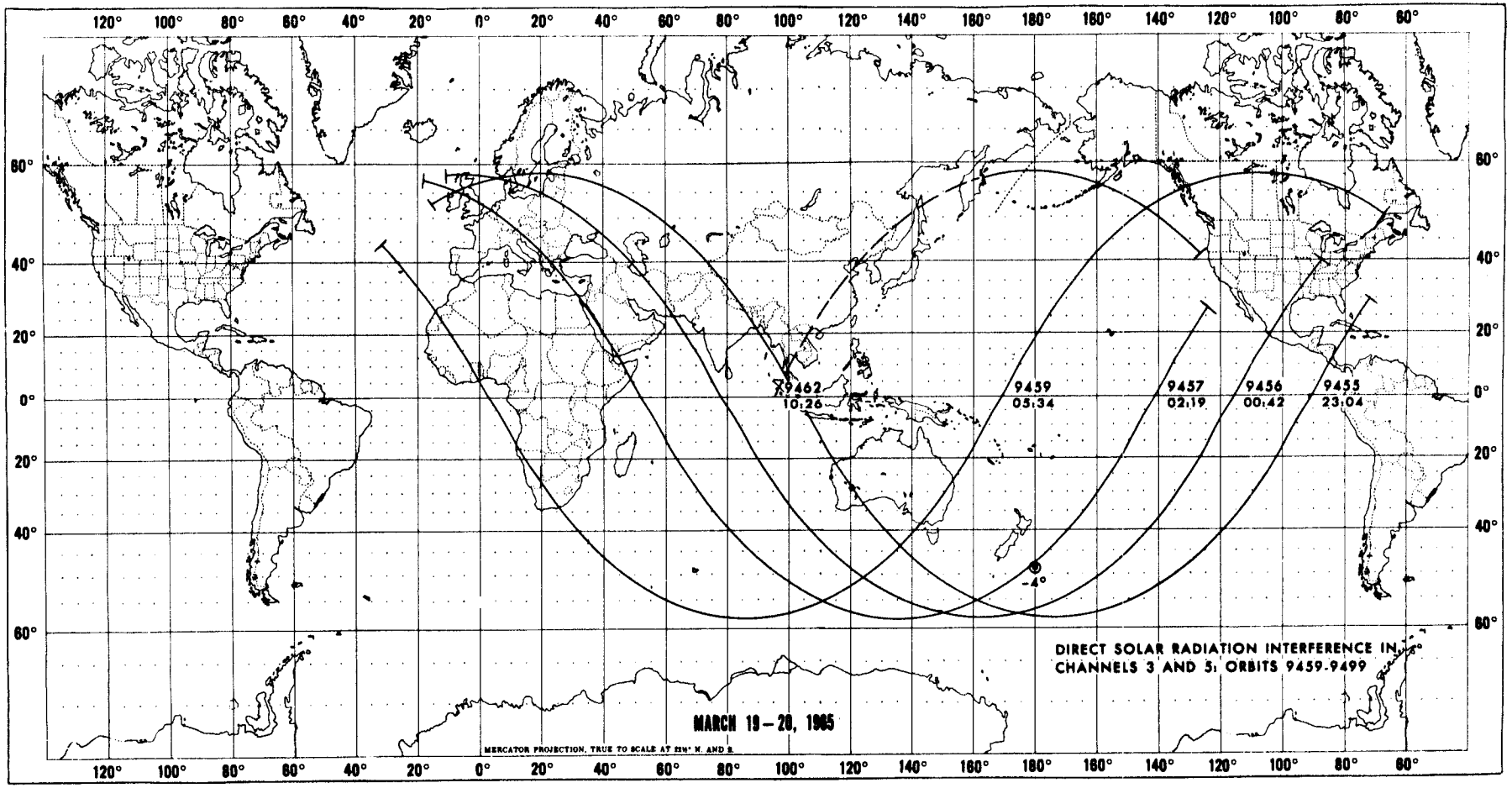
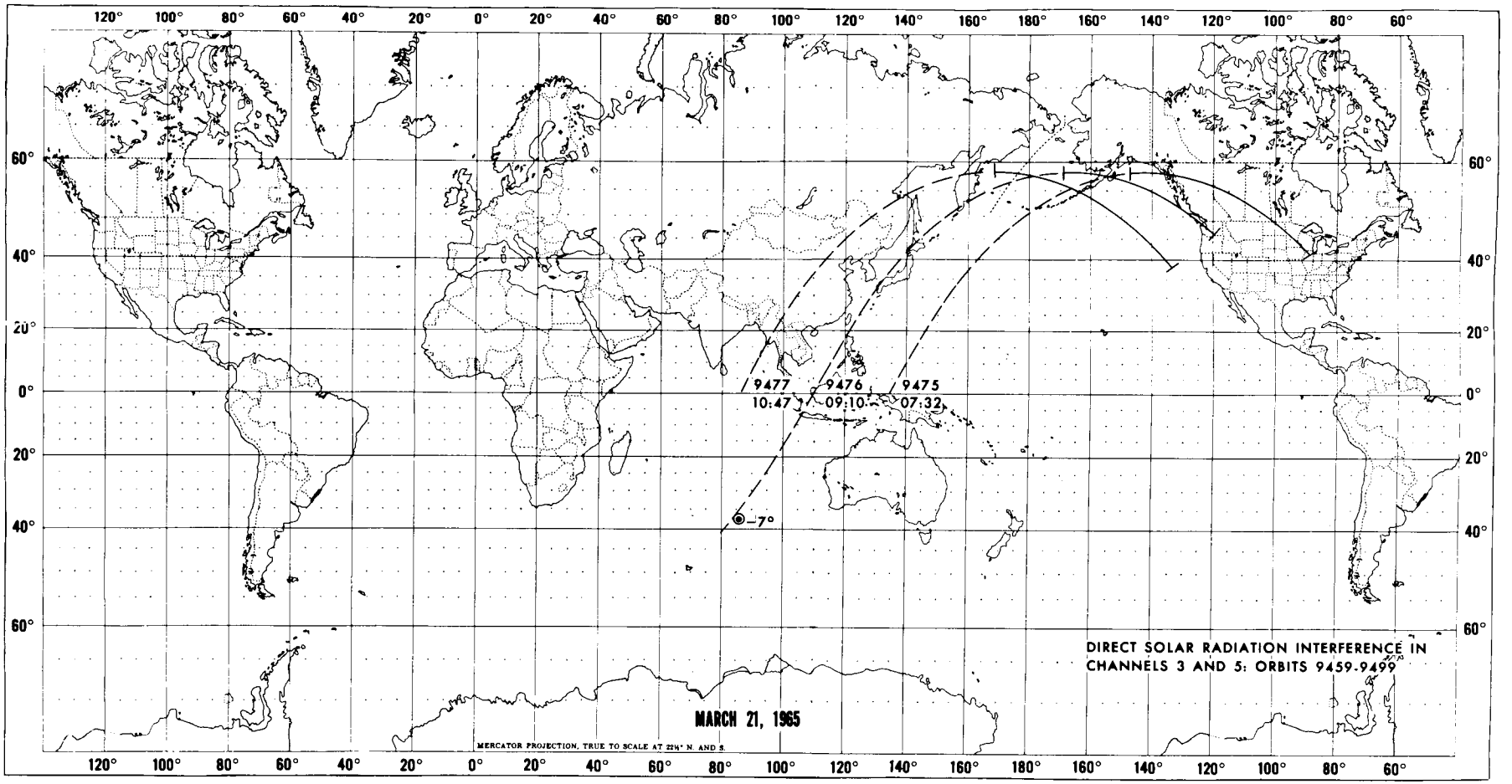
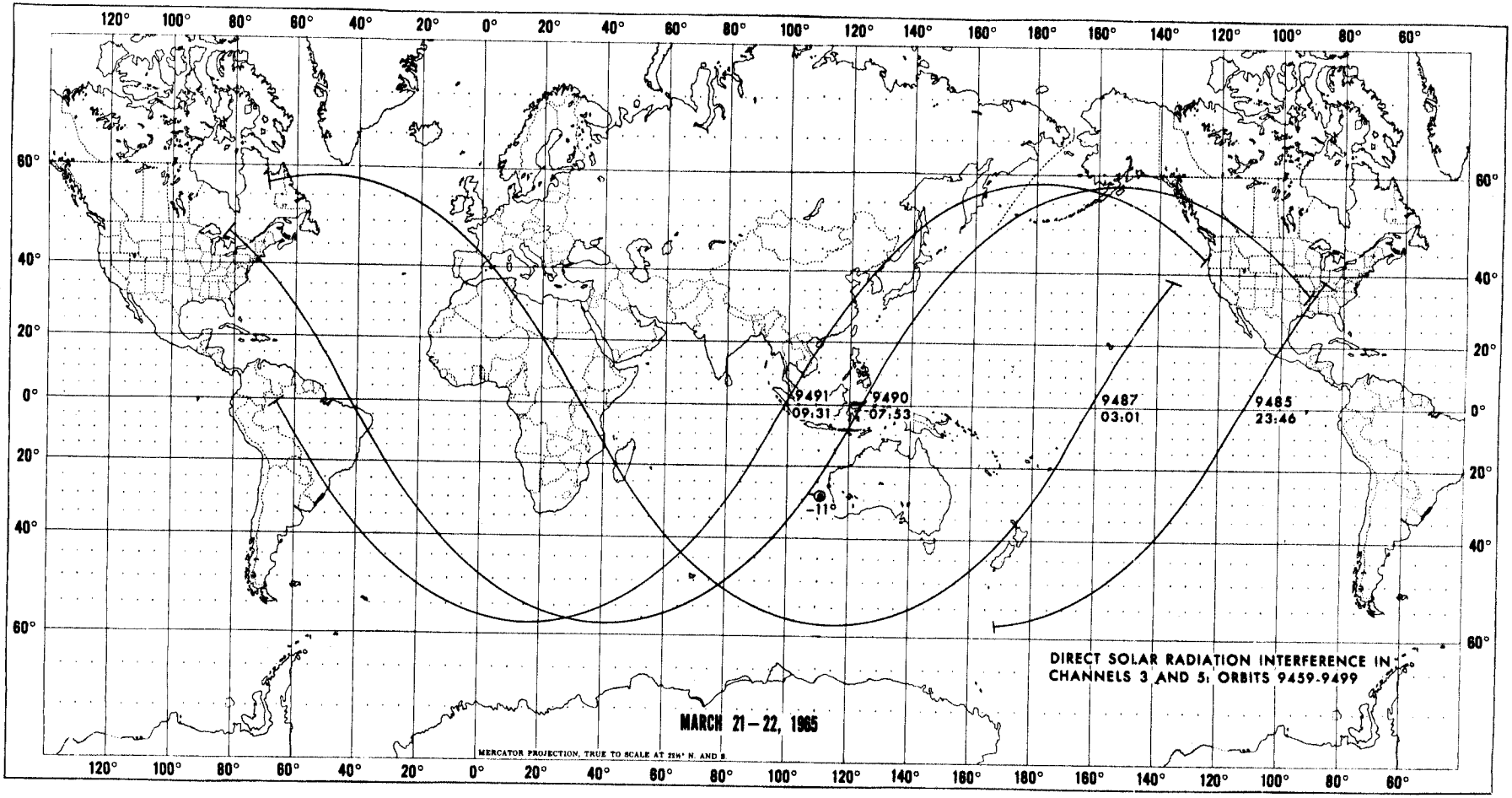
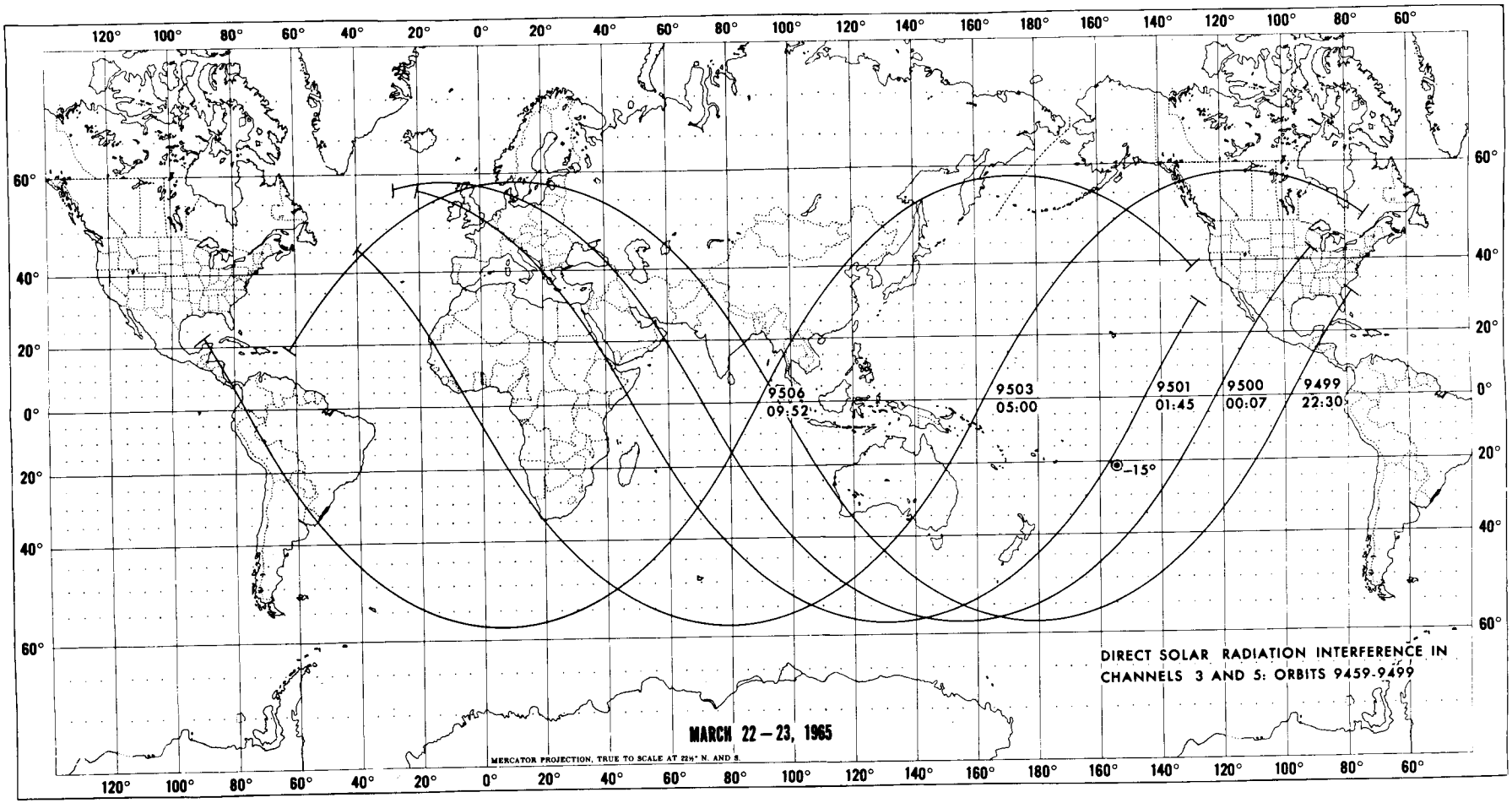
60°
40°
20°
0°
20°
40°
60°
9432
09.44
9431
08.07
9428
03.15
9427
01.37
9426
24.00
-4°
MARCH 17 – 18, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

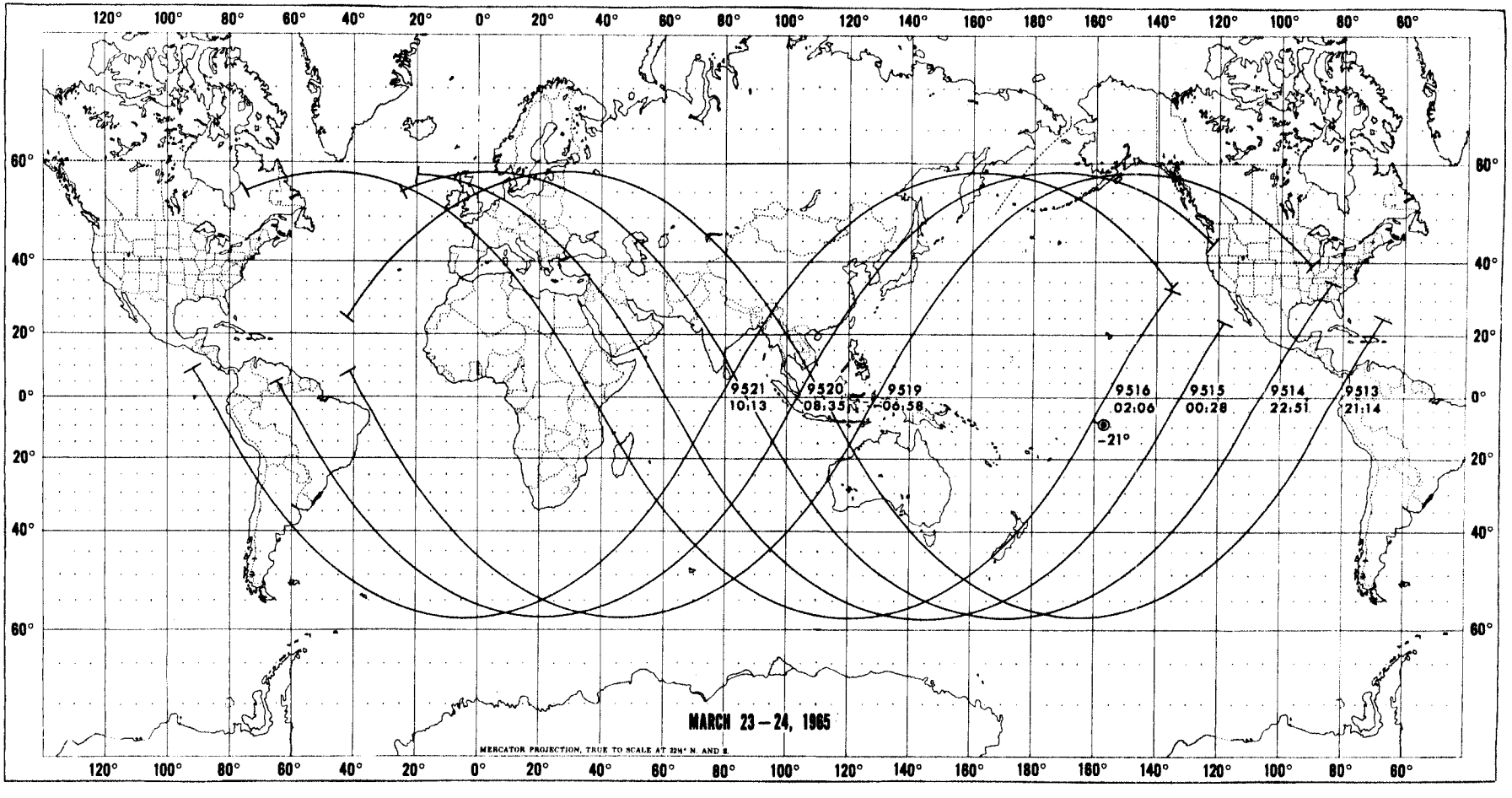

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
9447
7:10:05
9443
03:36
9442
01:58
9441
00:21
9440
22:43
MARCH 18–19, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

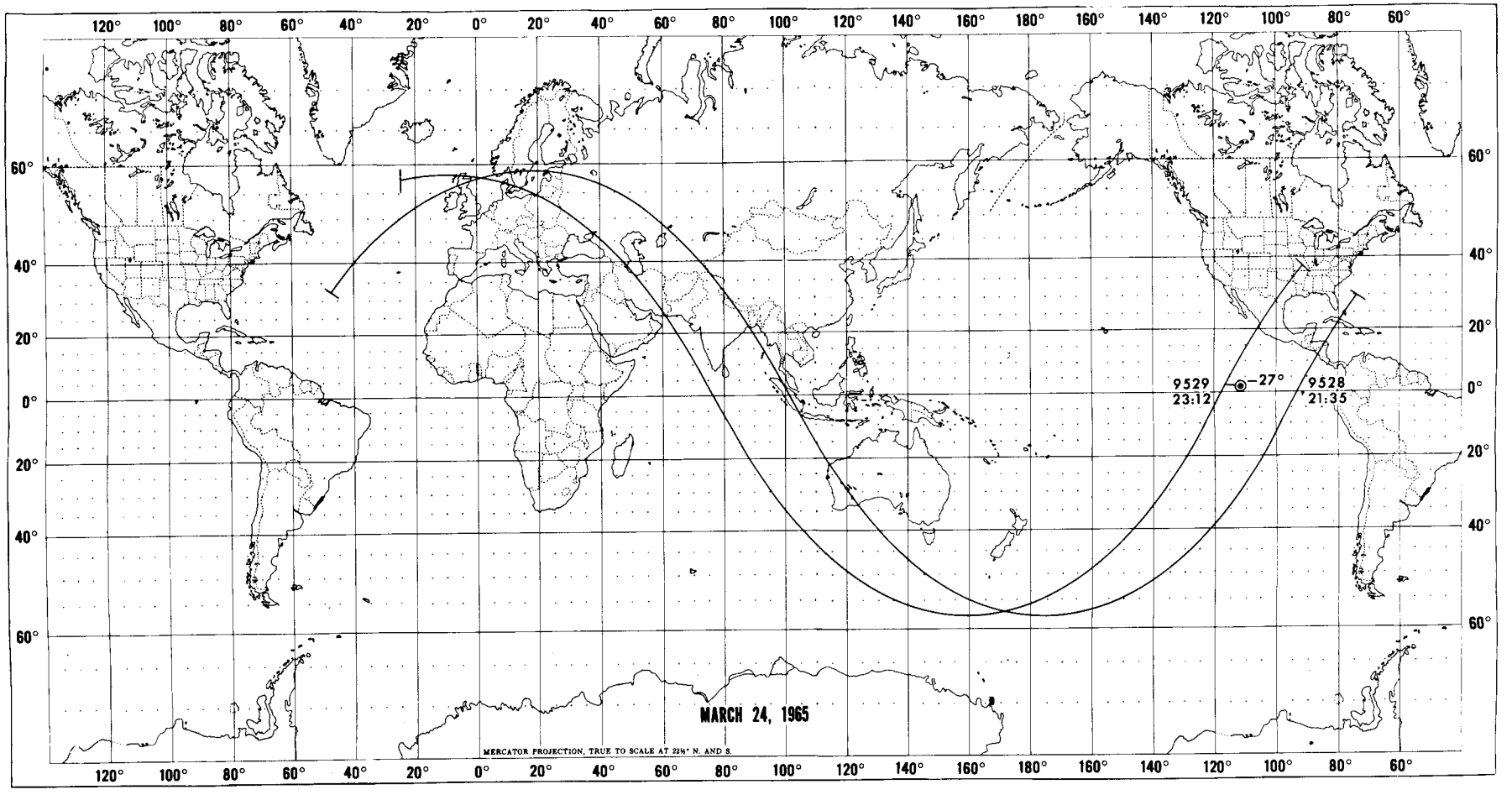

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
80°
40°
20°
0°
20°
40°
60°
9462
10:26
9459
05:34
9457
02:19
9456
00:42
9455
23:04
-4°
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5, ORBITS 9459-9499
MARCH 19 – 20, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 25½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
9477
10:47
9476
09:10
9475
07:32
7°
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5: ORBITS 9459-9499
MARCH 21, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
9491
09:31
9490
07:53
9487
03:01
9485
23:46
-11°
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5; ORBITS 9459-9499
MARCH 21 – 22, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
9506
09:52
9503
05:00
9501
01:45
9500
00:07
9499
22:30
-15°
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5: ORBITS 9459-9499
MARCH 22 – 23, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
9521
10:13
9520
08:35
9519
06:58
9516
02:06
9515
00:28
9514
22:51
9513
21:14
-21°
MARCH 23 – 24, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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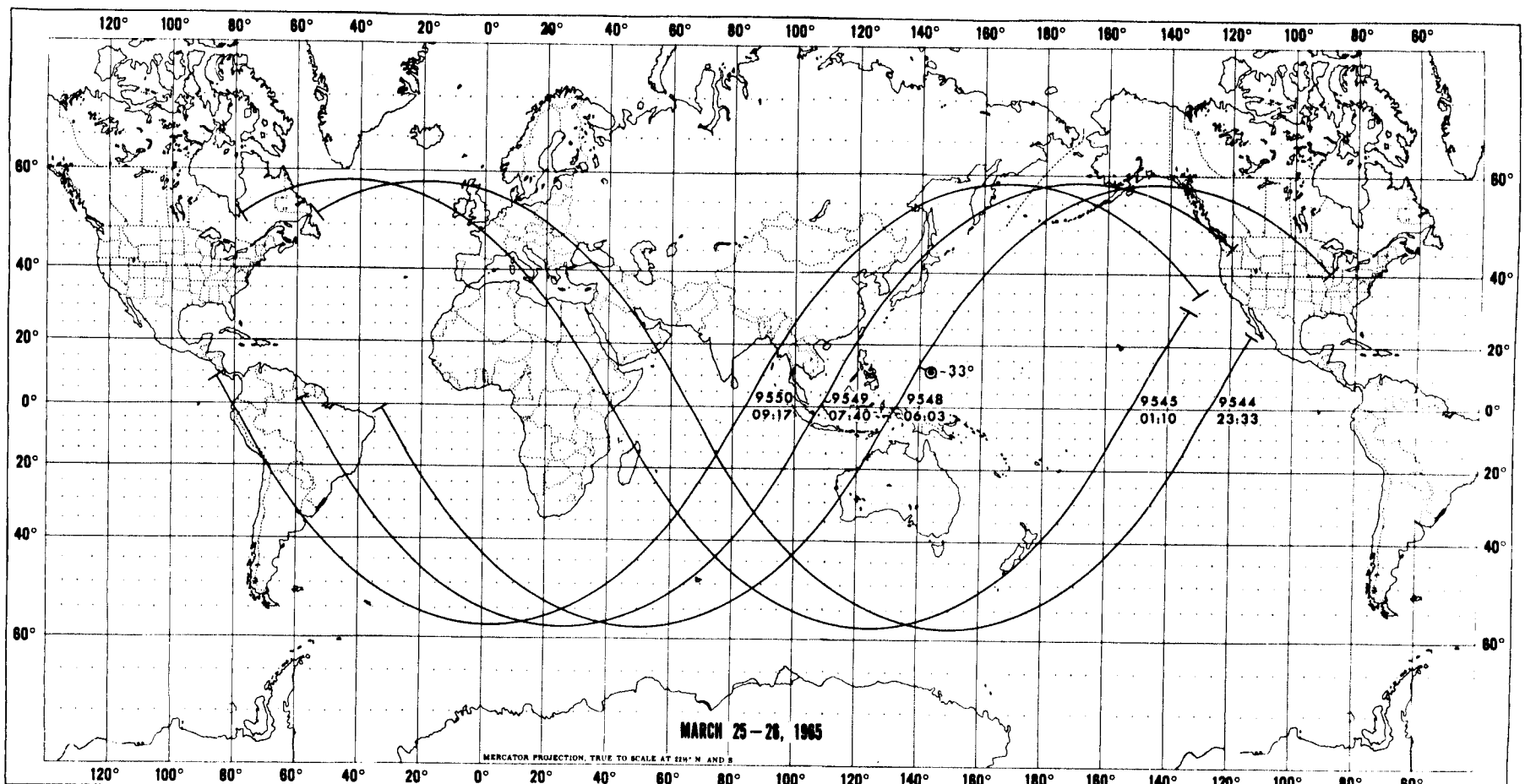
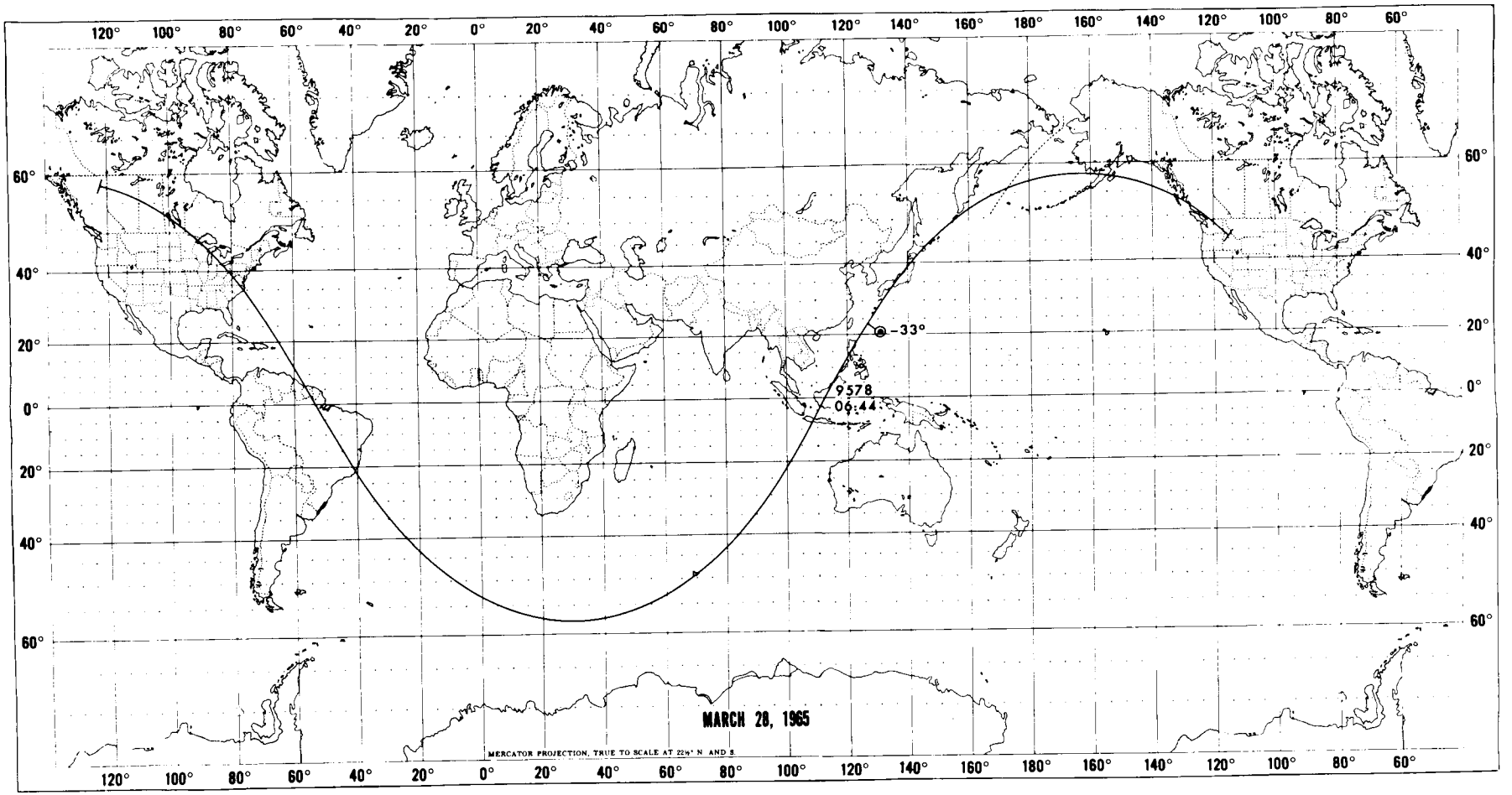
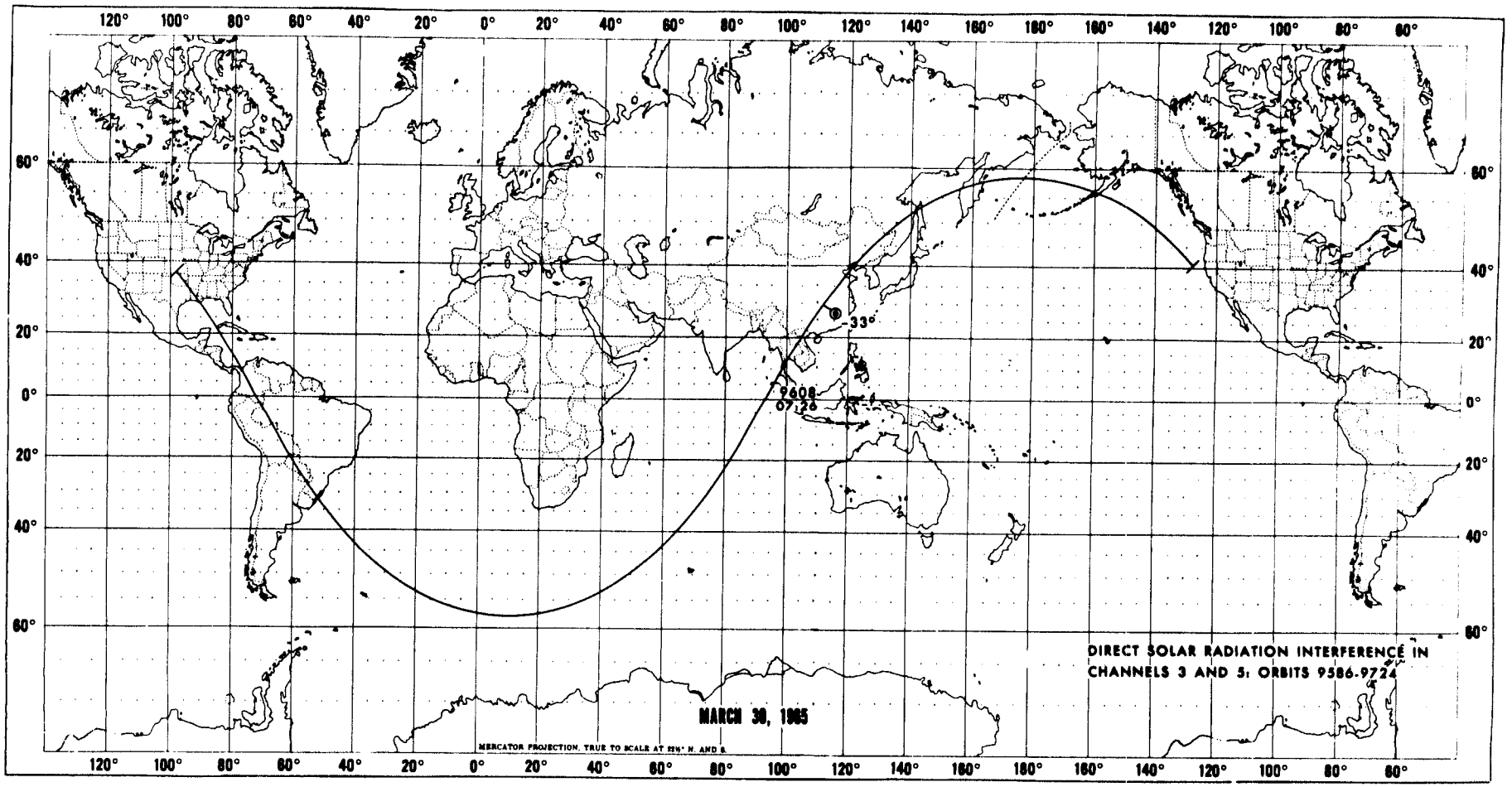
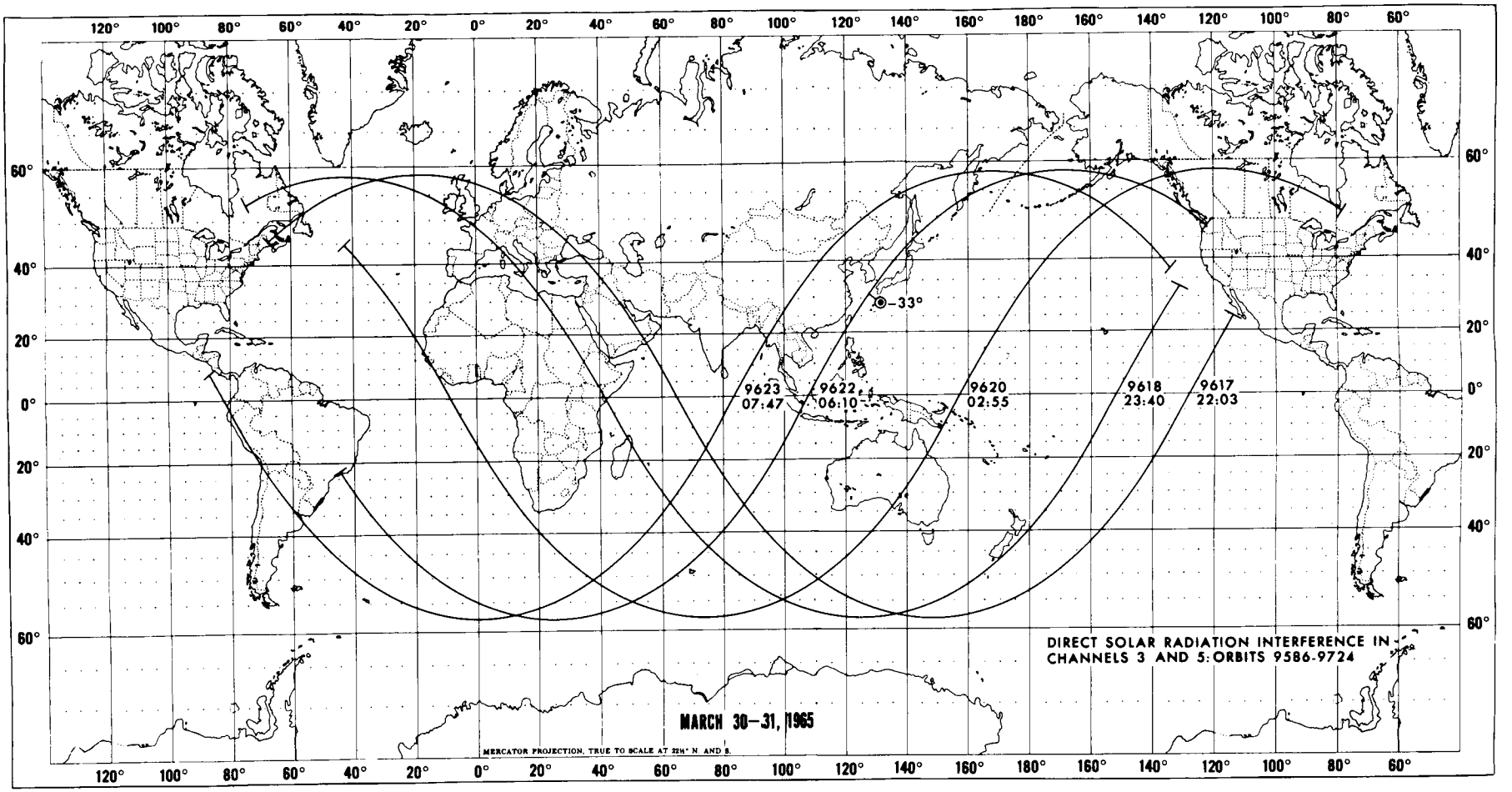
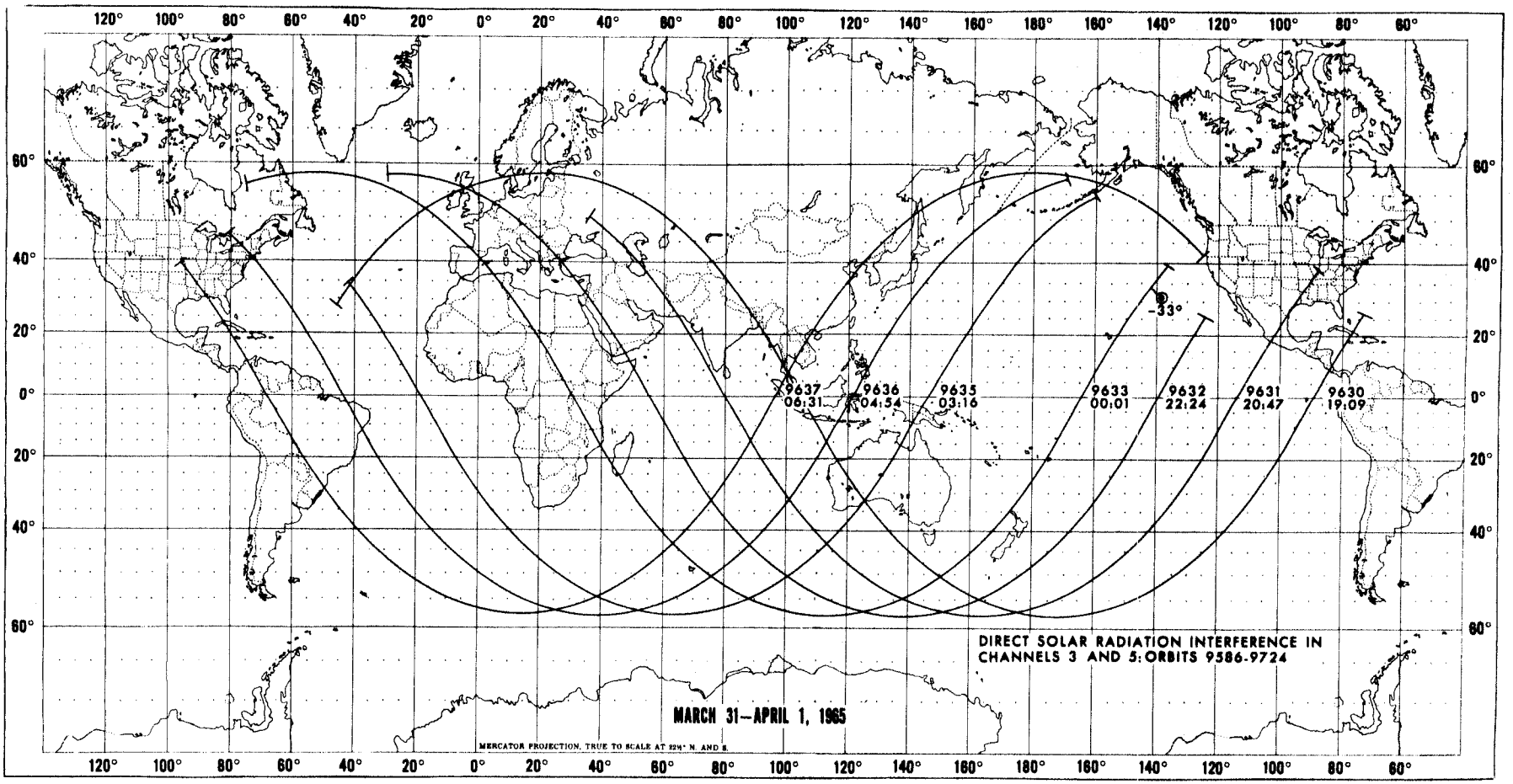
60°
40°
20°
0°
20°
40°
60°
9529
23:12
−27°
9528
21:35
MARCH 24, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

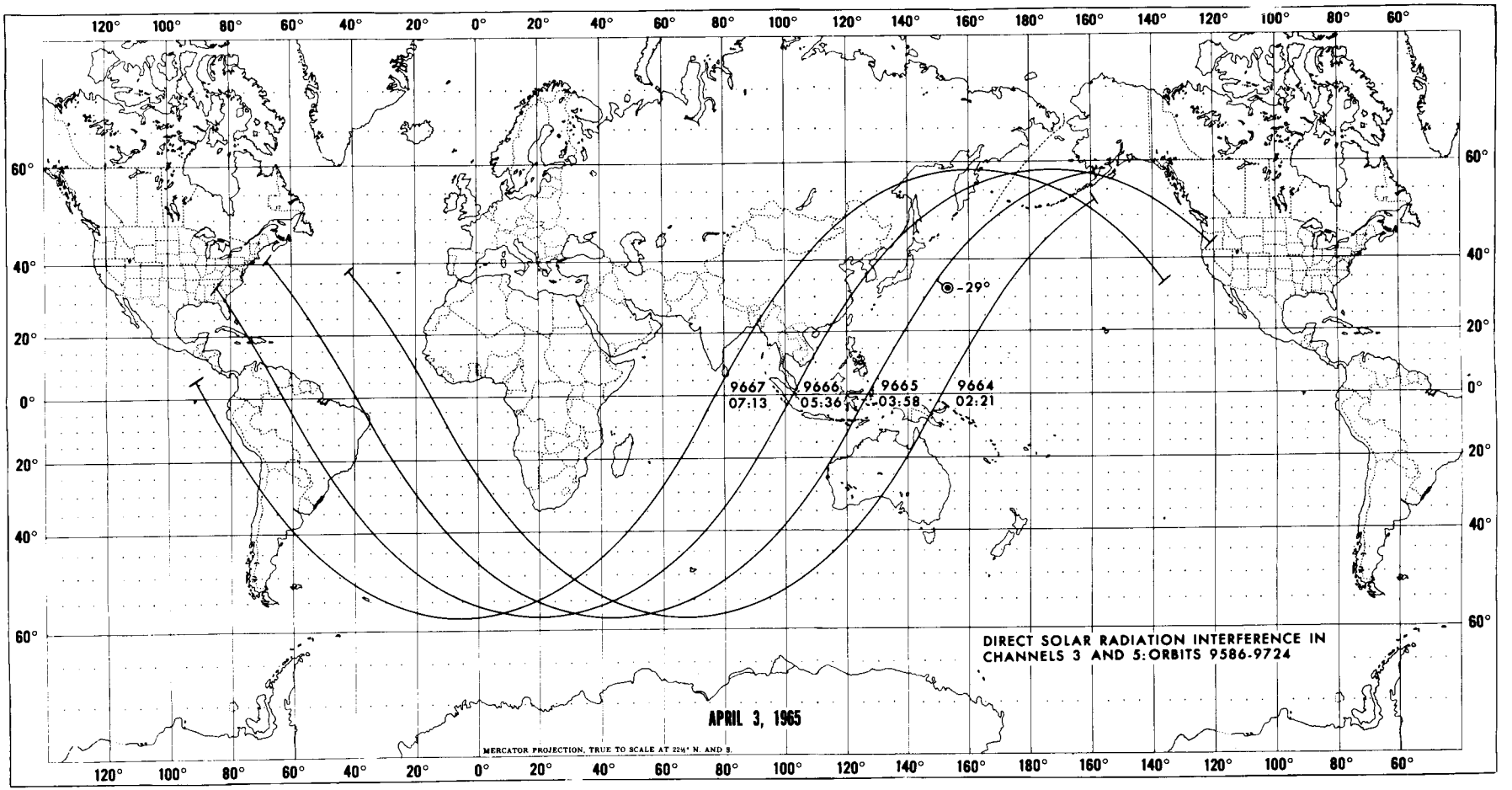

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
-33°
9550
09:17
9549
07:40
9548
06:03
9545
01:10
9544
23:33
MARCH 25 – 26, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

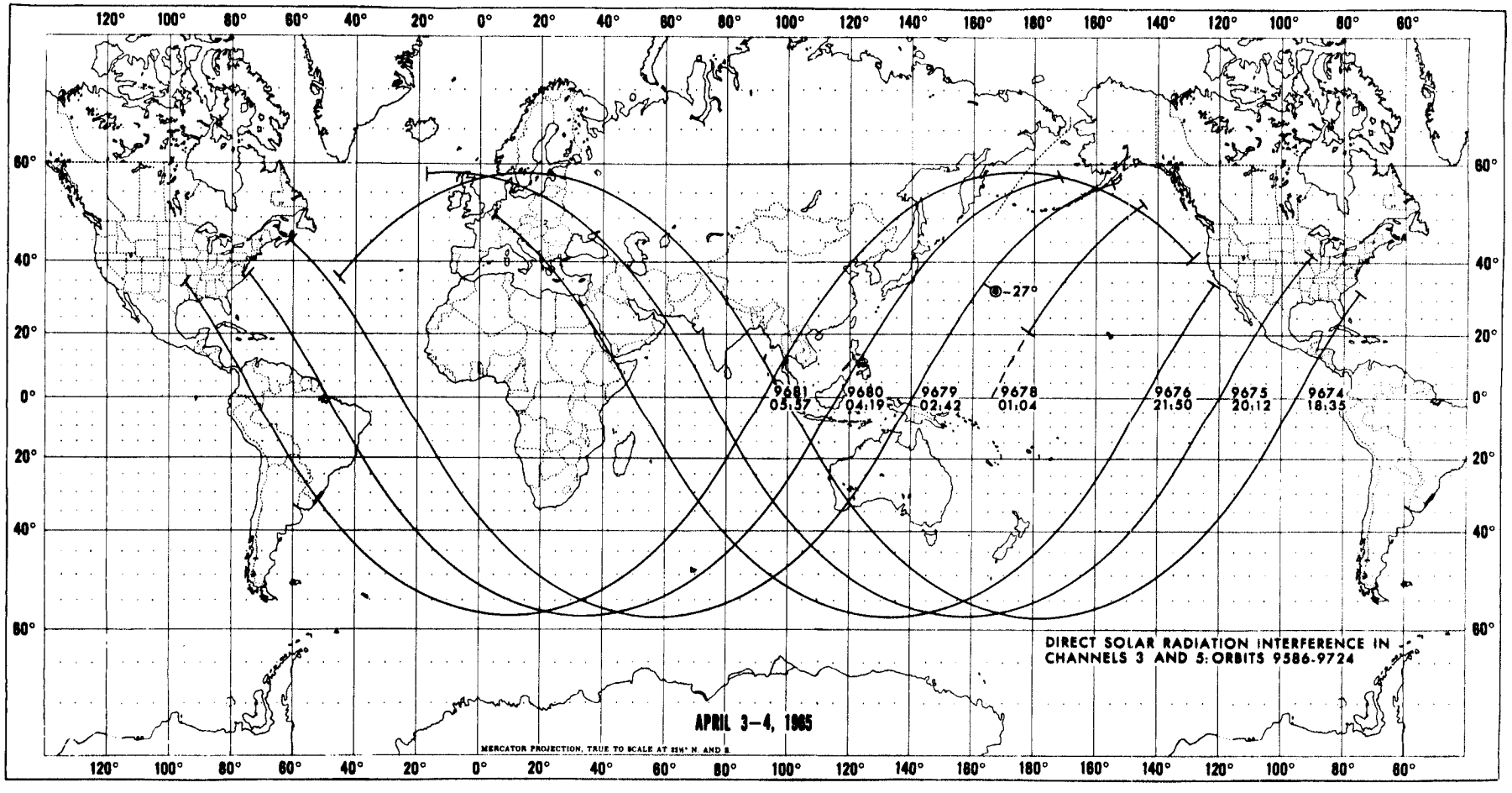

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
-33°
9578
06:44
MARCH 28, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N AND S

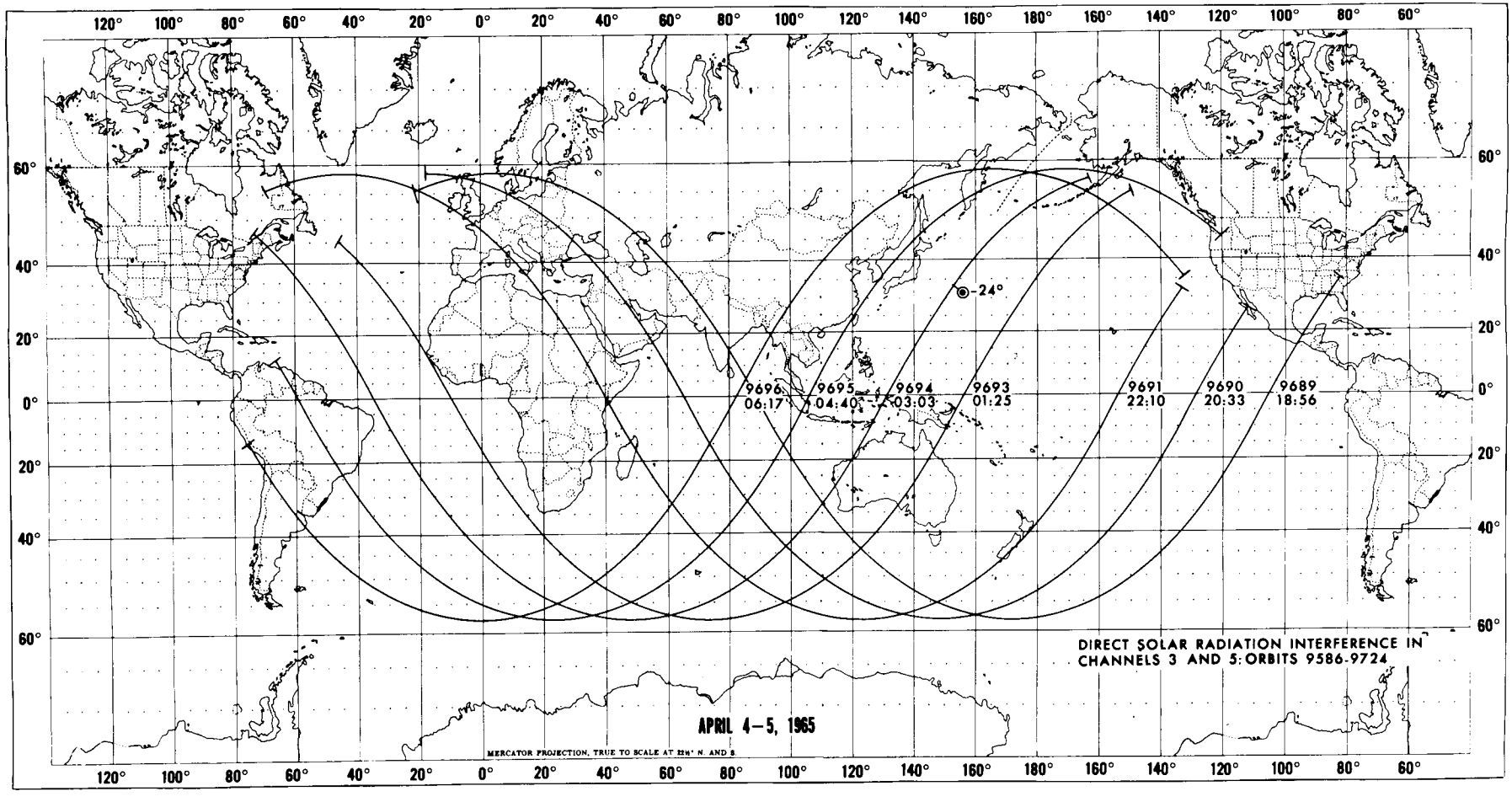

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
33°
9608
07:26
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5: ORBITS 9586-9724
MARCH 30, 1965
MERCATOR PROJECTION. TRUE TO SCALE AT 25½° N. AND S.

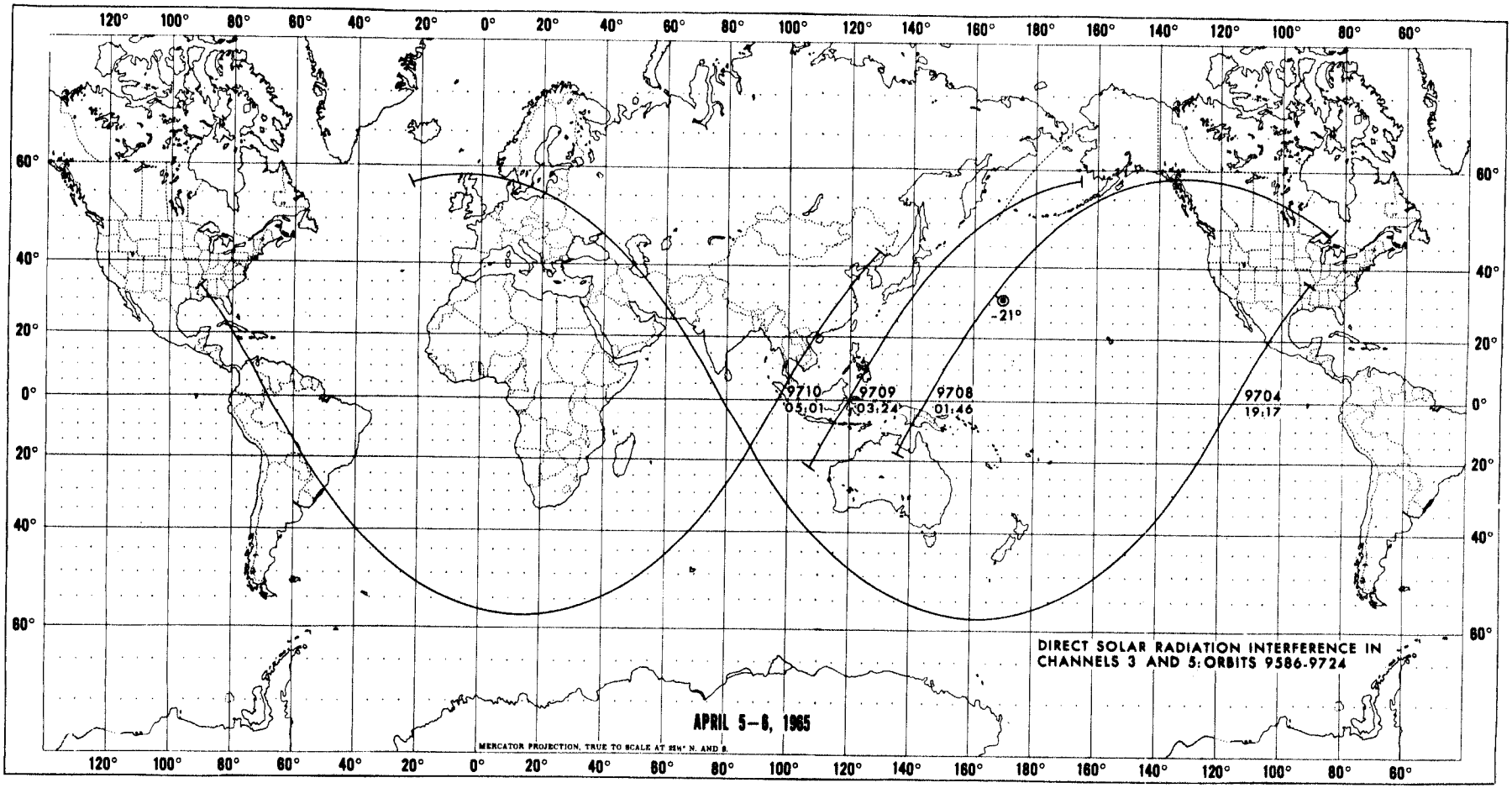

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
-33°
9623
07:47
9622
06:10
9620
02:55
9618
23:40
9617
22:03
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5: ORBITS 9586-9724
MARCH 30—31, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N AND S.

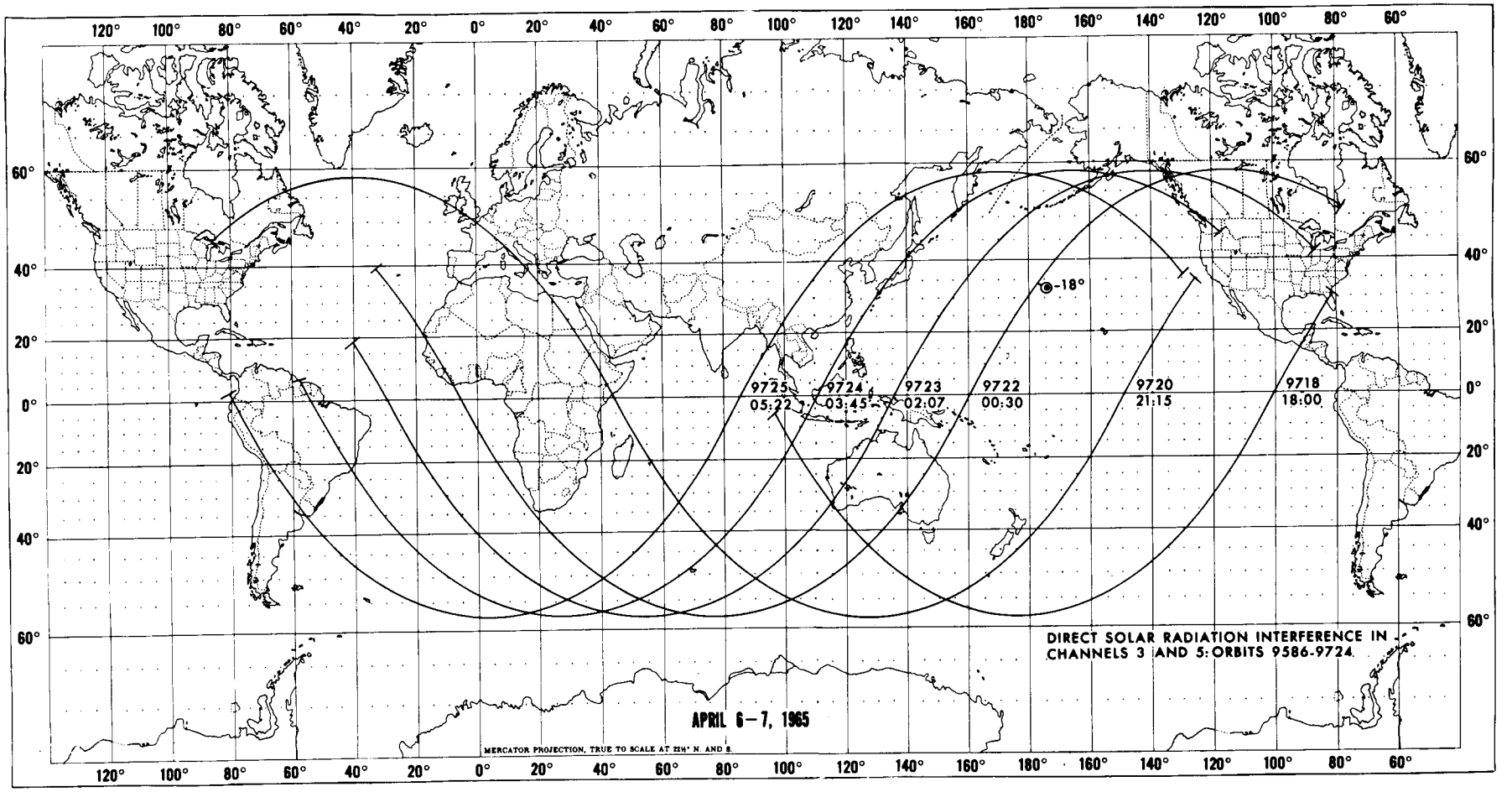

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
-33°
9637 06:31
9636 04:54
9635 03:16
9633 00:01
9632 22:24
9631 20:47
9630 19:09
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5: ORBITS 9586-9724
MARCH 31—APRIL 1, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

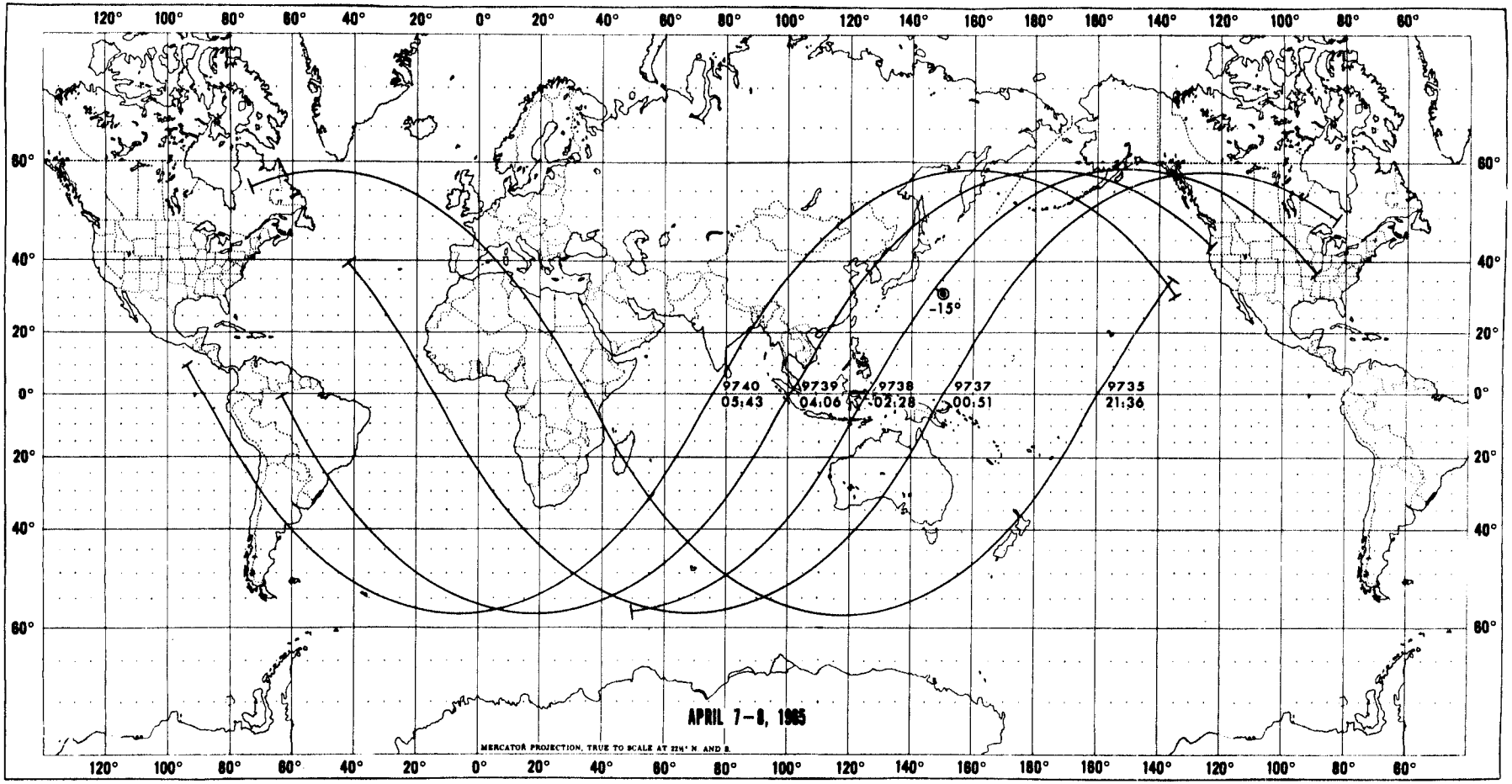

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
-29°
9667
07:13
9666
05:36
9665
03:58
9664
02:21
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5: ORBITS 9586-9724
APRIL 3, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

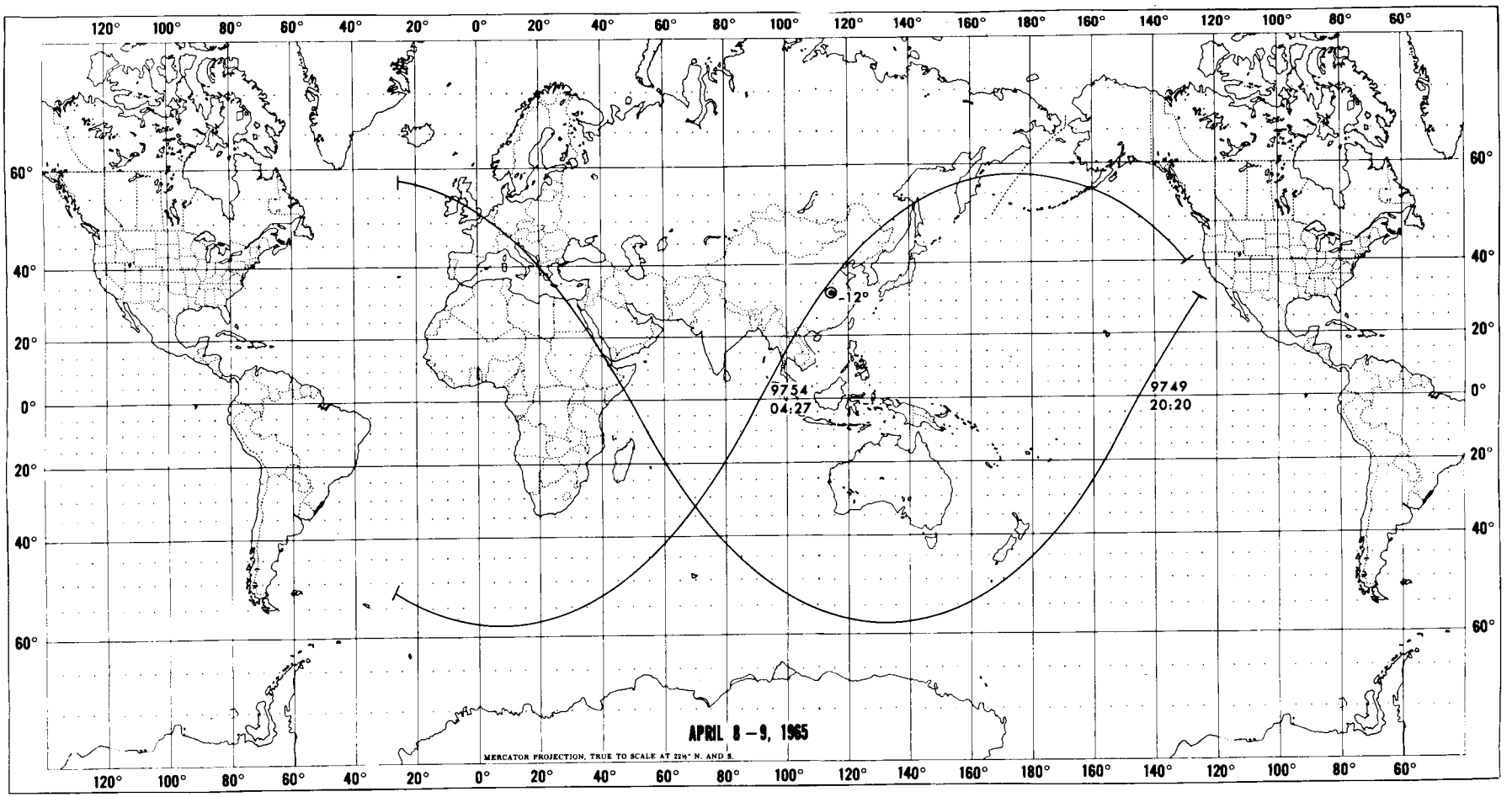

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
-27°
9681 05:57
9680 04:19
9679 02:42
9678 01:04
9676 21:50
9675 20:12
9674 18:35
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5: ORBITS 9586-9724
APRIL 3–4, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 33½° N. AND S.

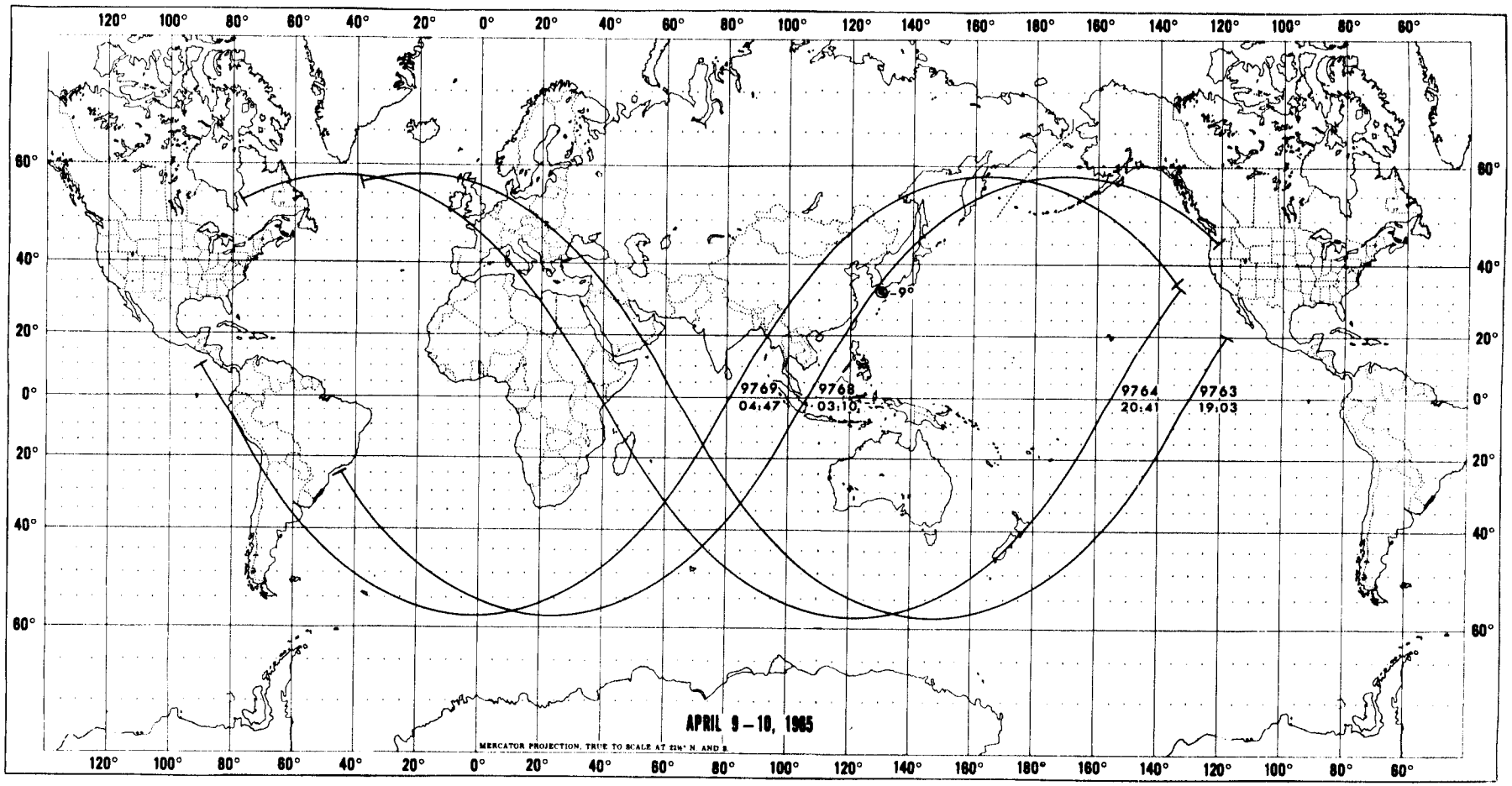

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
-24°
9696 06:17
9695 04:40
9694 03:03
9693 01:25
9691 22:10
9690 20:33
9689 18:56
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5: ORBITS 9586-9724
APRIL 4–5, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

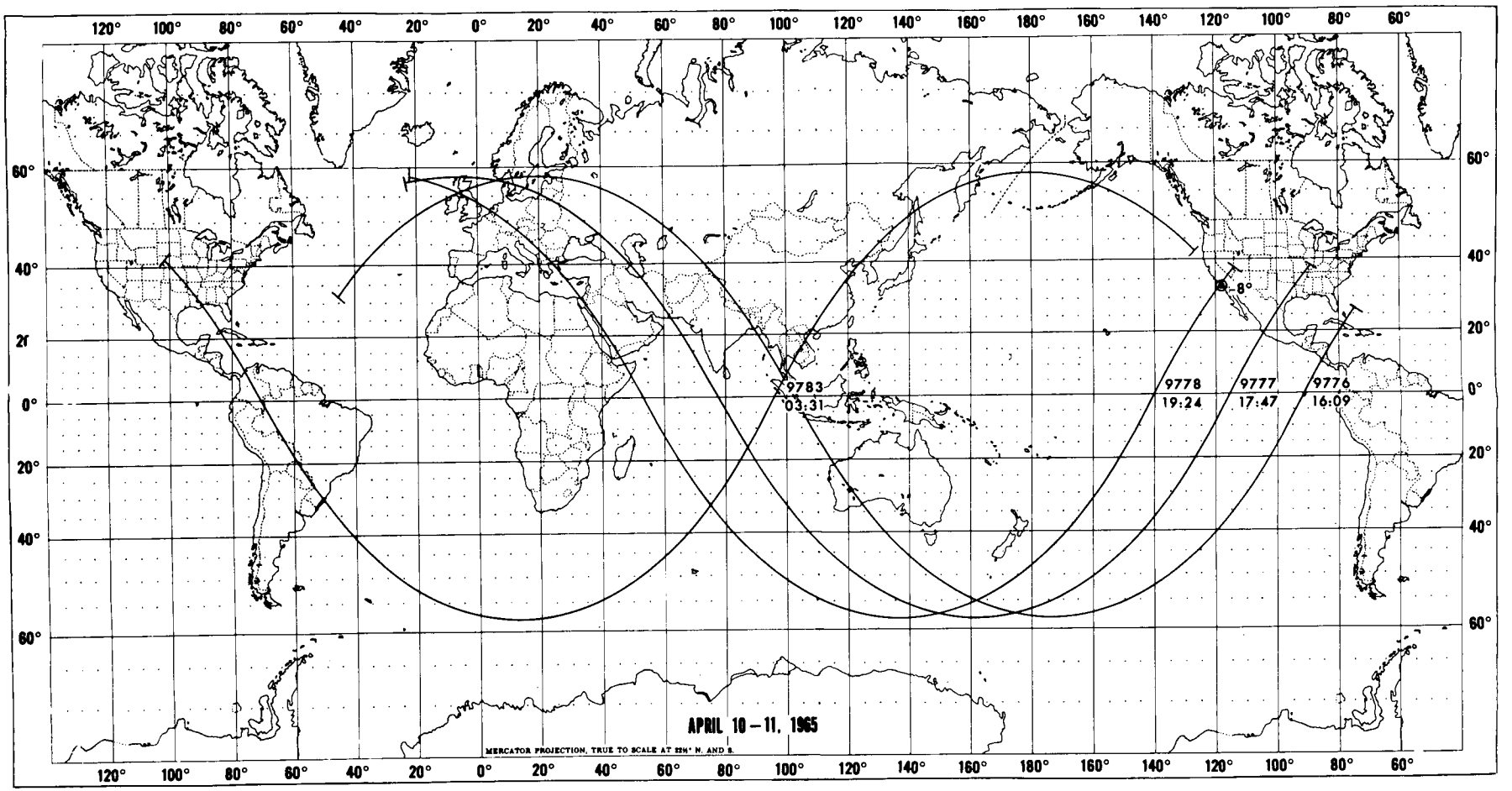

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
-21°
9710
05:01
9709
03:24
9708
01:46
9704
19:17
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5: ORBITS 9586-9724
APRIL 5—6, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

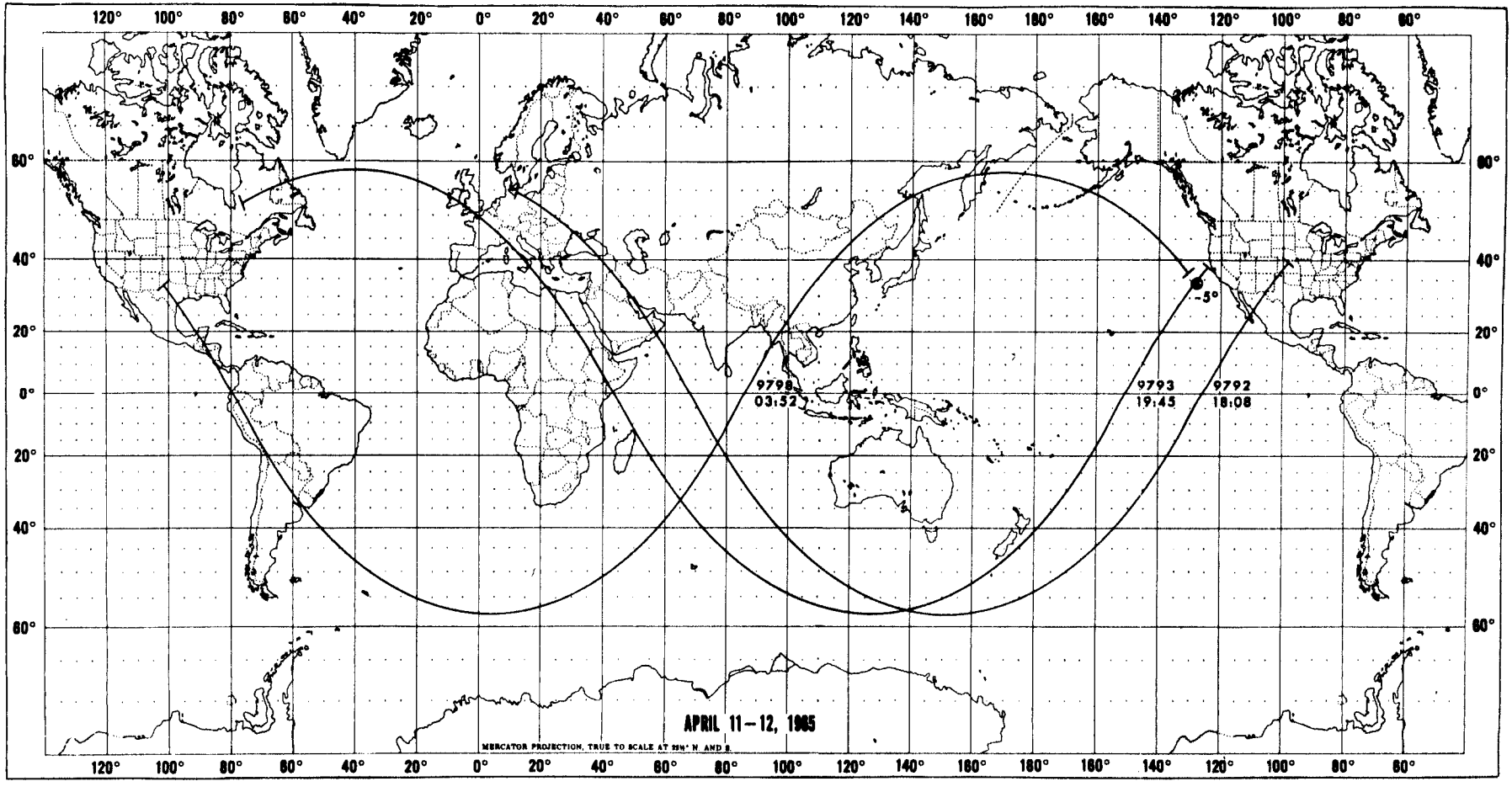

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
-18°
9725
05:22
9724
03:45
9723
02:07
9722
00:30
9720
21:15
9718
18:00
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5: ORBITS 9586-9724
APRIL 6-7, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

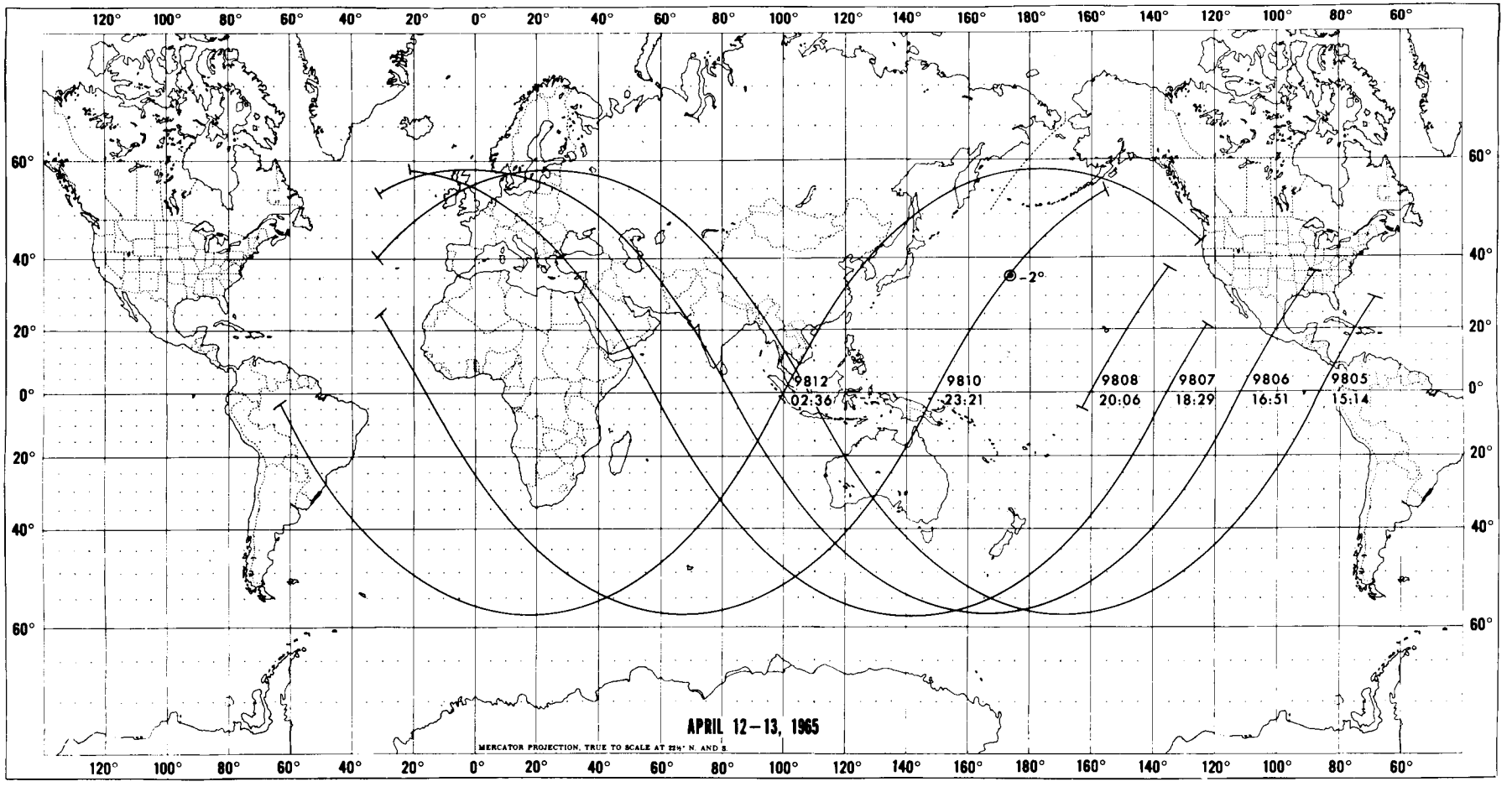

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 180° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
-15°
9740
05:43
9739
04:06
9738
-02:28
9737
00:51
9735
21:36
APRIL 7-8, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

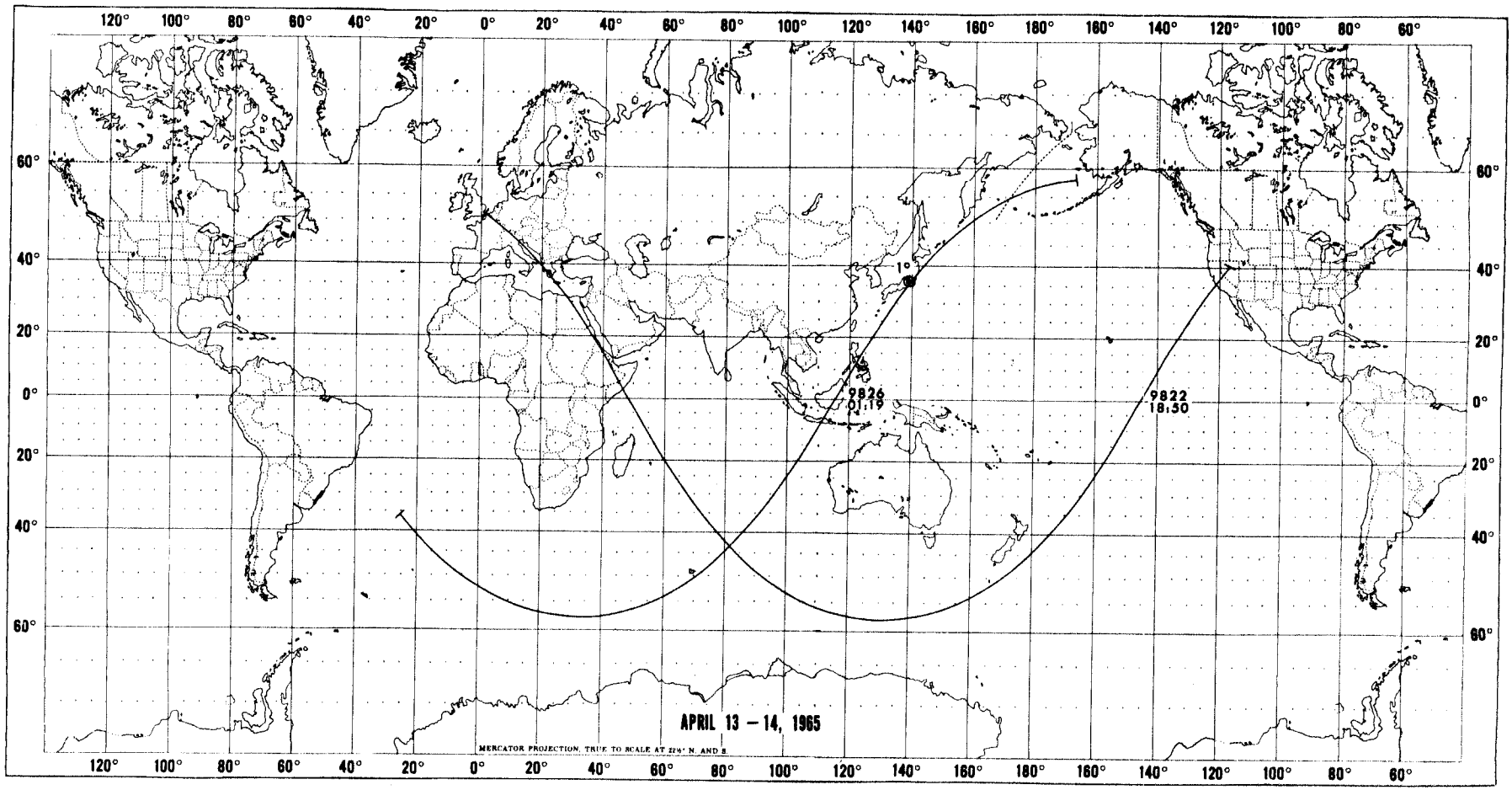

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
-12°
9754
04:27
9749
20:20
APRIL 8 – 9, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

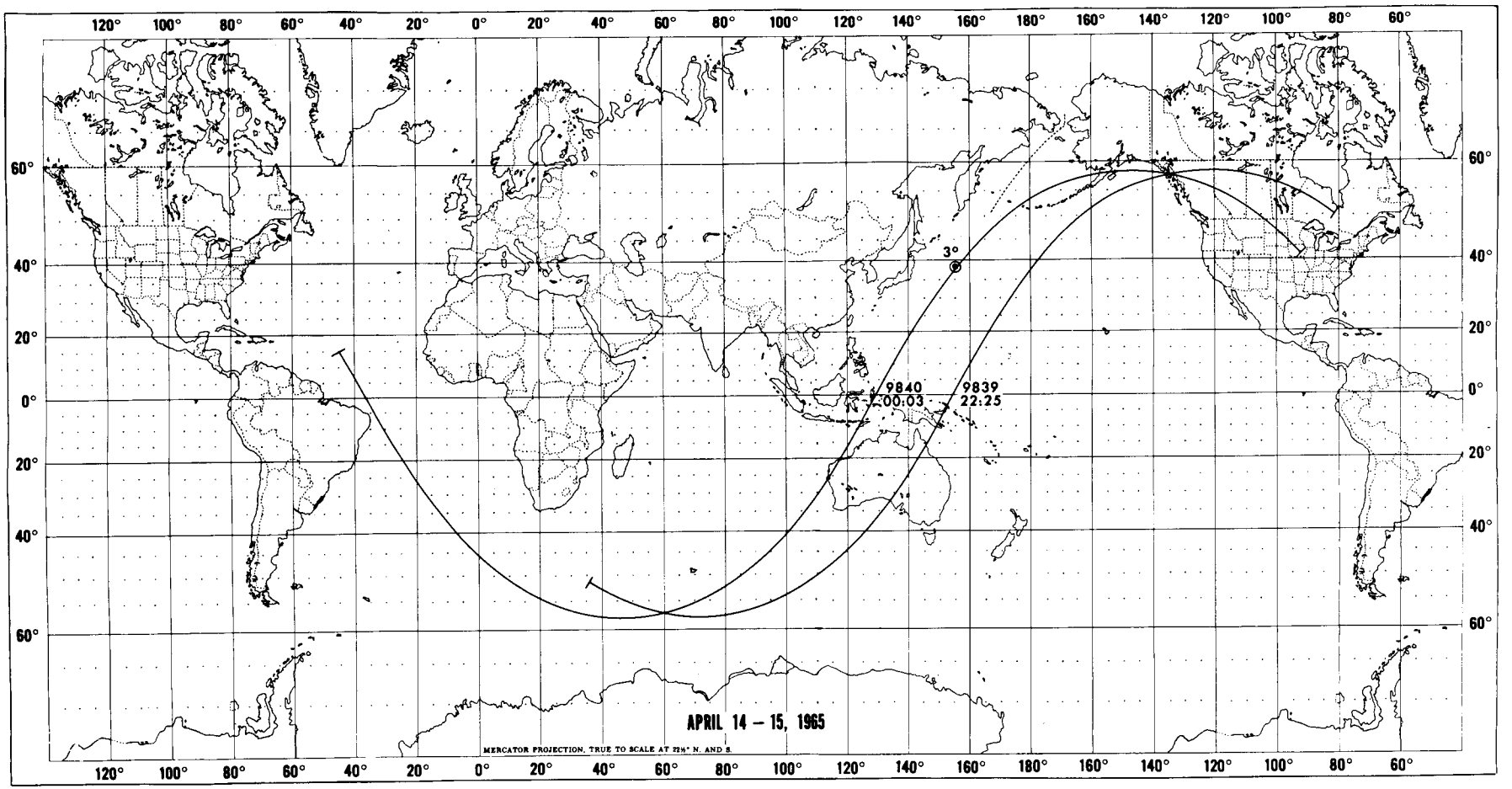

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
9769
04:47
9768
03:10
9764
20:41
9763
19:03
APRIL 9 – 10, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

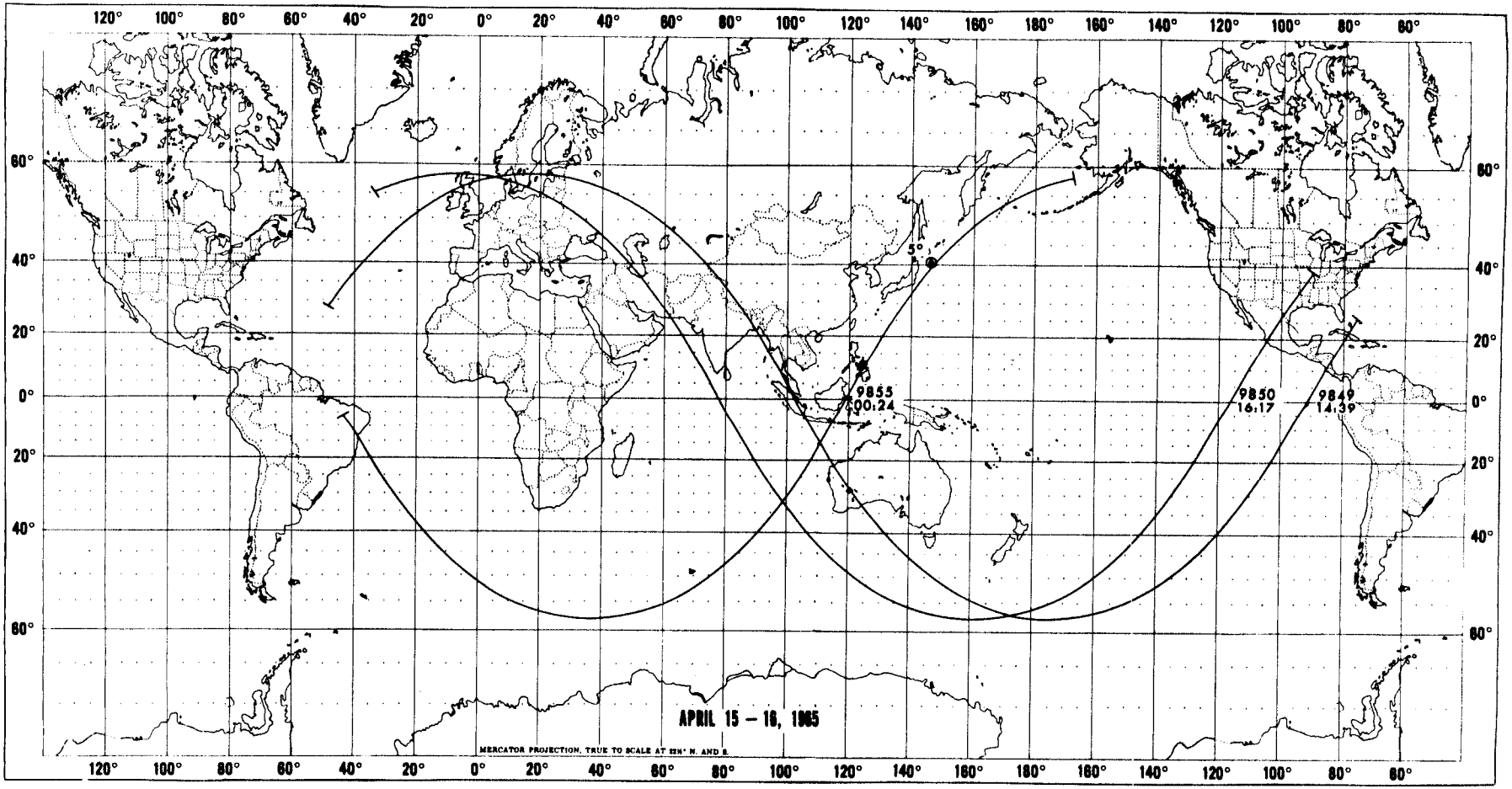

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
9783
03:31
9778
19:24
9777
17:47
9776
16:09
8°
APRIL 10 – 11, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

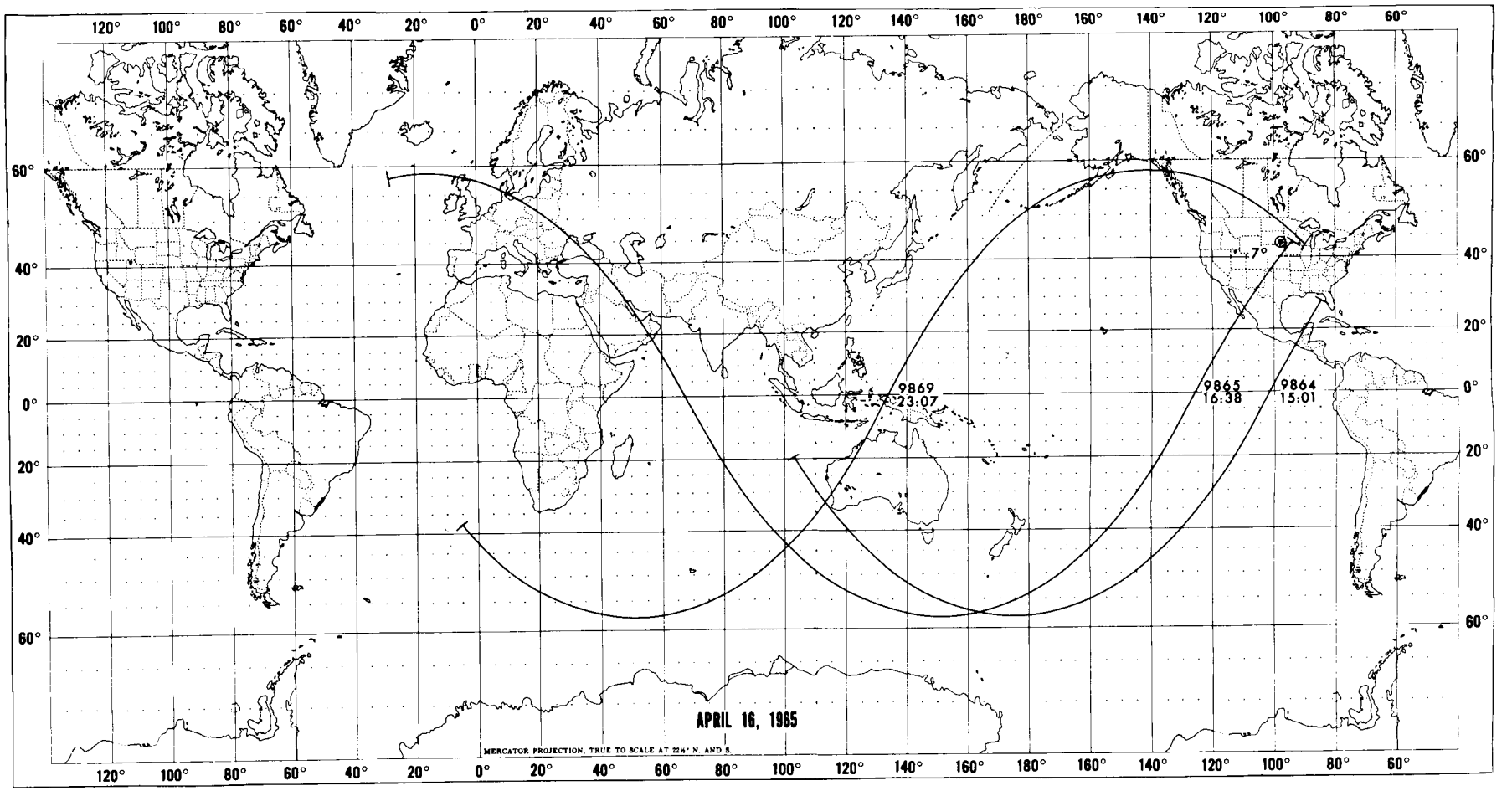

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
9790
03:52
9793
19:45
9792
18:08
-5°
APRIL 11–12, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 55½° N AND S.

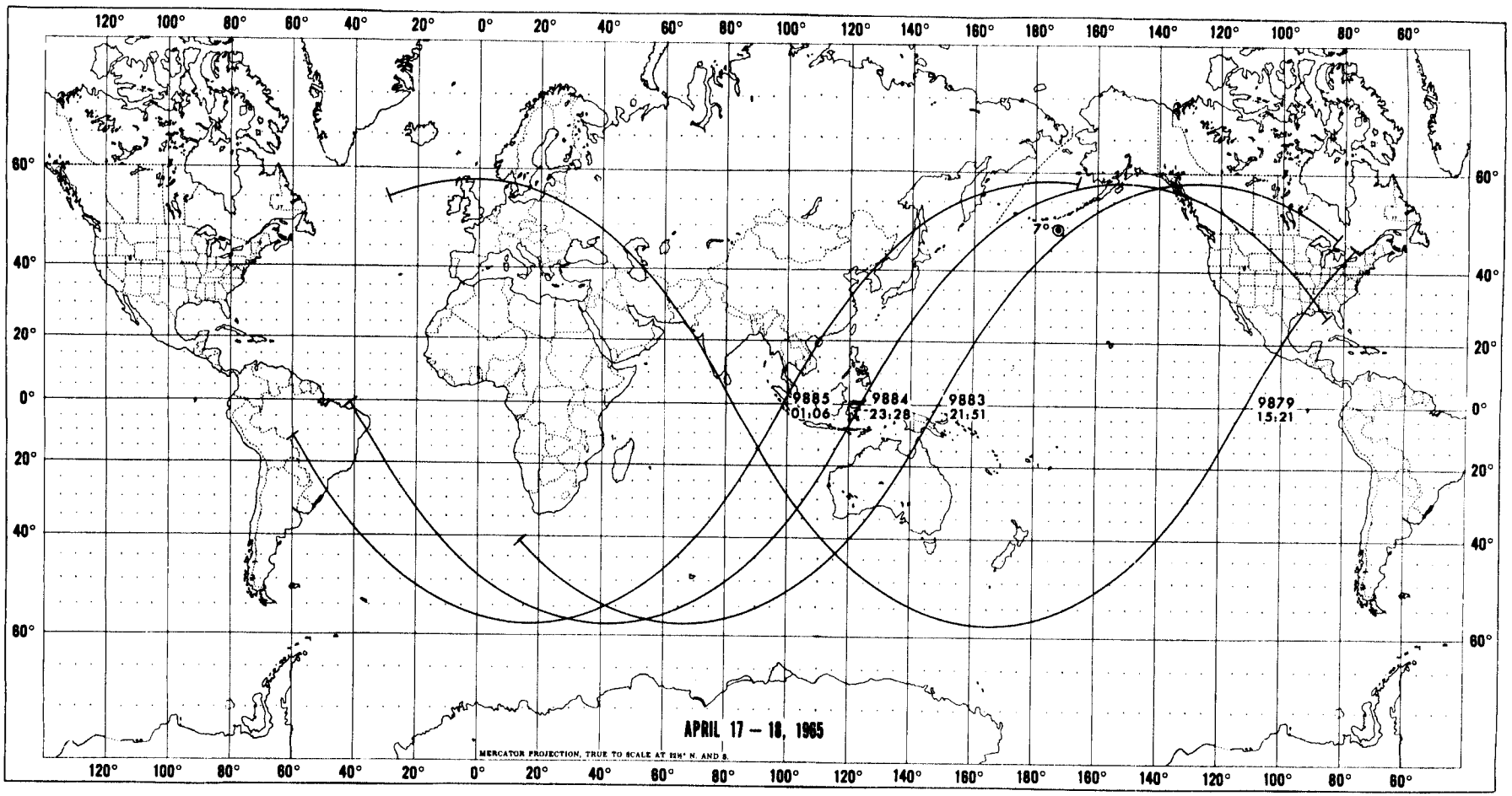

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
-2°
9812
02:36
9810
23:21
9808
20:06
9807
18:29
9806
16:51
9805
15:14
APRIL 12–13, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

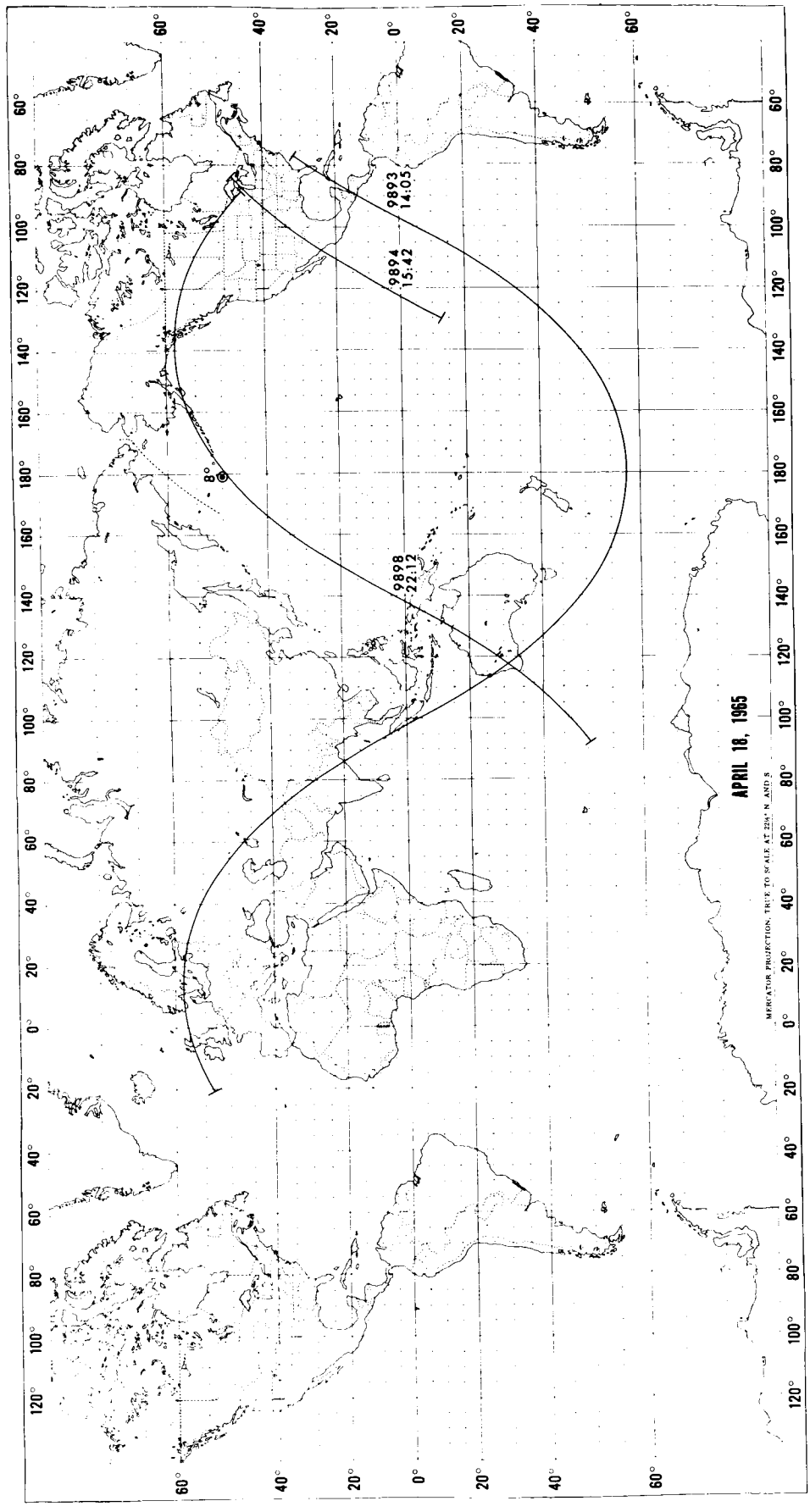

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
9826
01.19
9822
18.50
APRIL 13 – 14, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

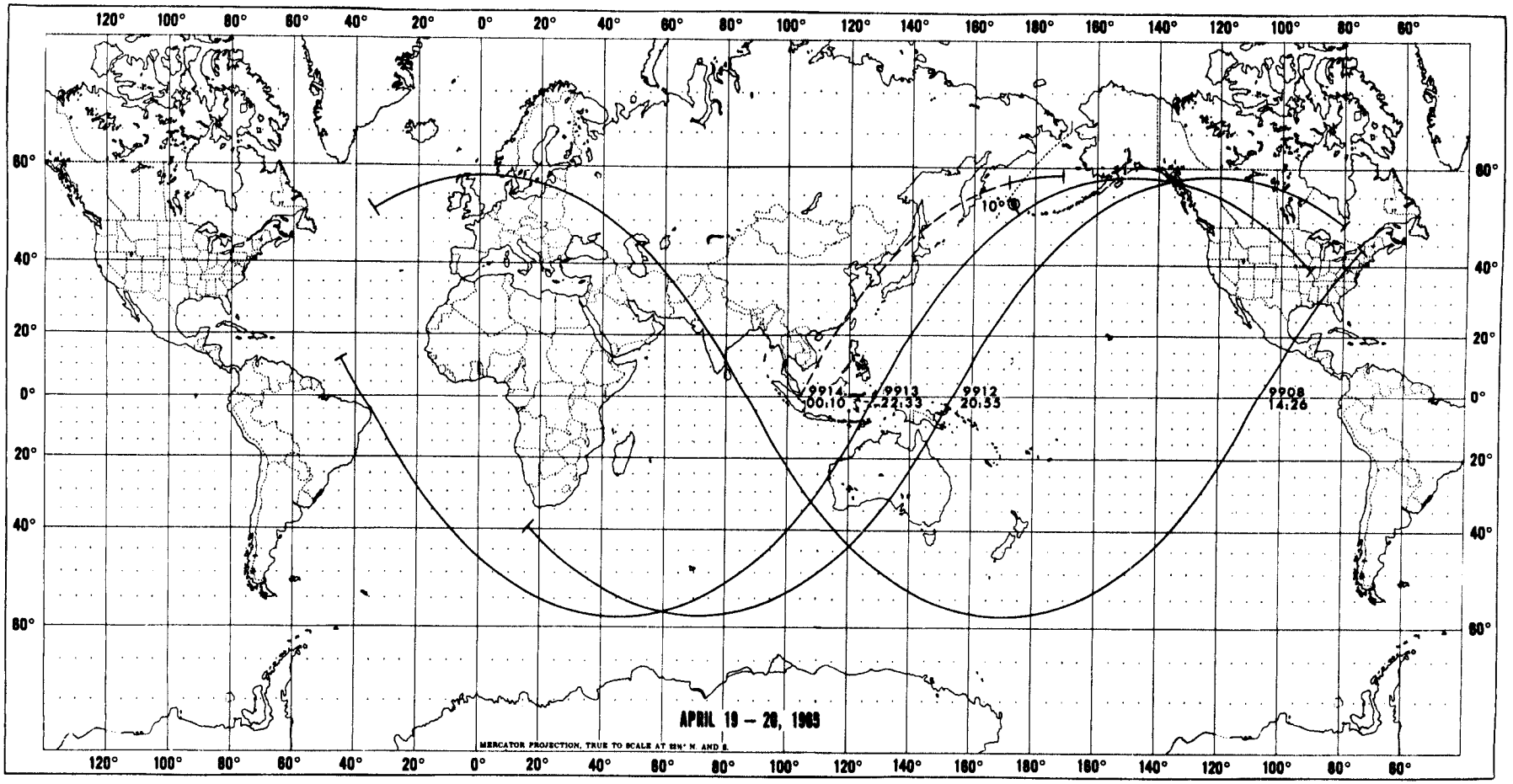

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
3°
9840
00:03
9839
22:25
APRIL 14 – 15, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

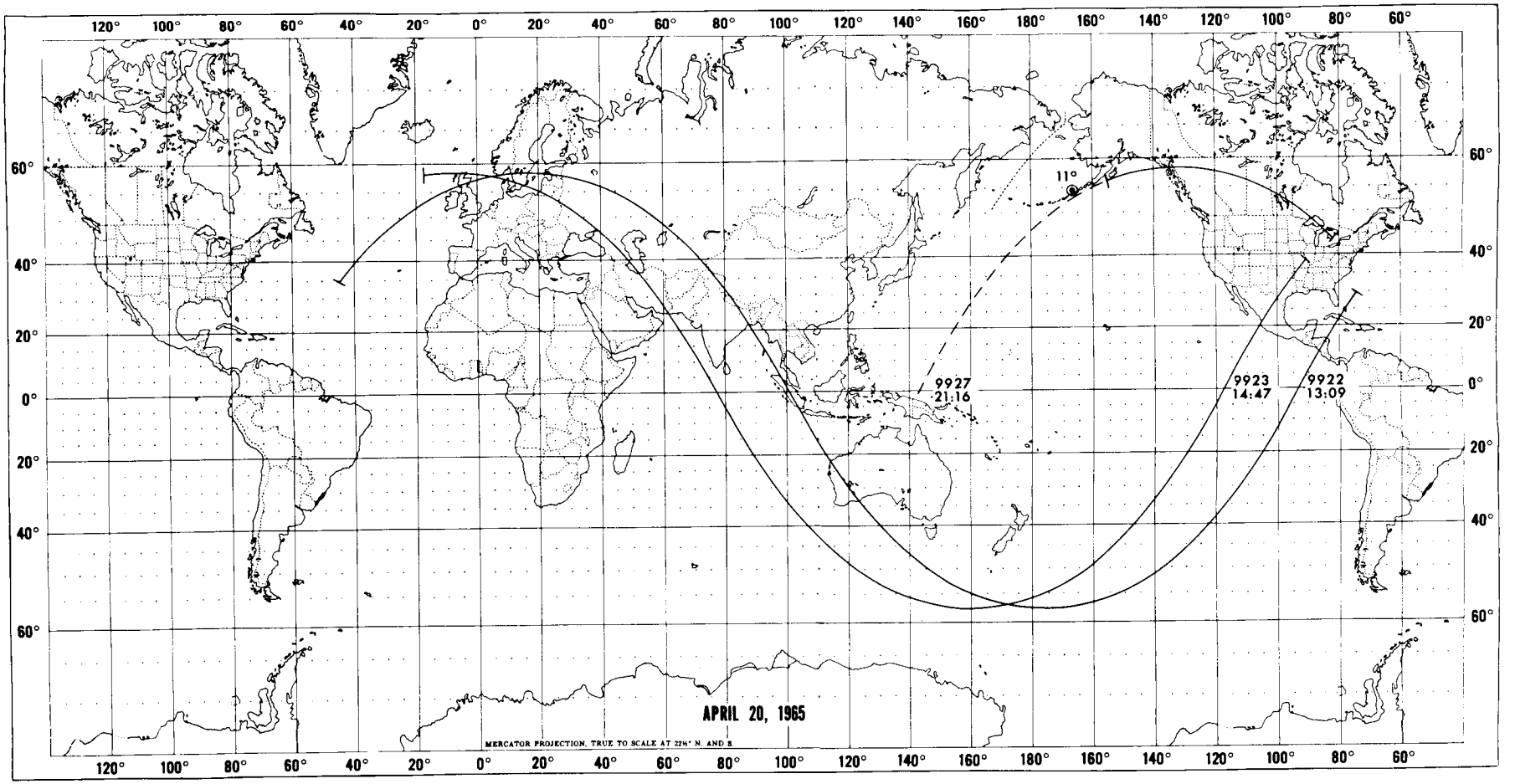

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
5°
9855
00.24
9850
16.17
9849
14.39
APRIL 15 – 16, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
9869
23:07
9865
16:38
9864
15:01
7°
APRIL 16, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
9885
01:06
9884
23:28
9883
21:51
9879
15:21
7°
APRIL 17 – 18, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 8H' N. AND S.


9893
14:05
9894
15:42
9898
22:12
APRIL 18, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
10°
9914
00:10
9913
22:33
9912
20:53
9908
14:26
APRIL 19 – 28, 1969
MERCATOR PROJECTION, TRUE TO SCALE AT 28½° N. AND S.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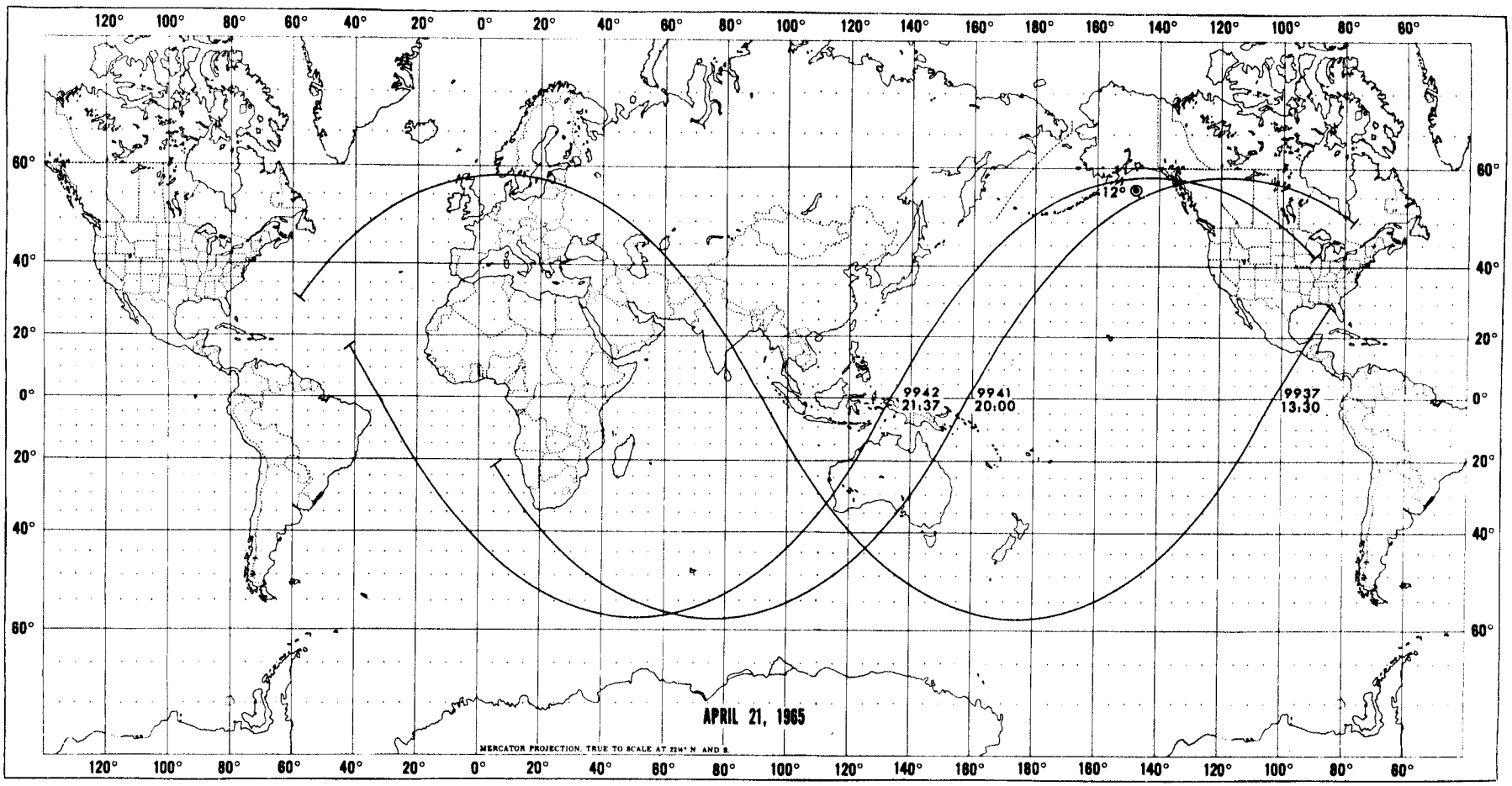
60°
40°
20°
0°
20°
40°
60°
11°
9927
21:16
9923
14:47
9922
13:09
APRIL 20, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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60°
40°
20°
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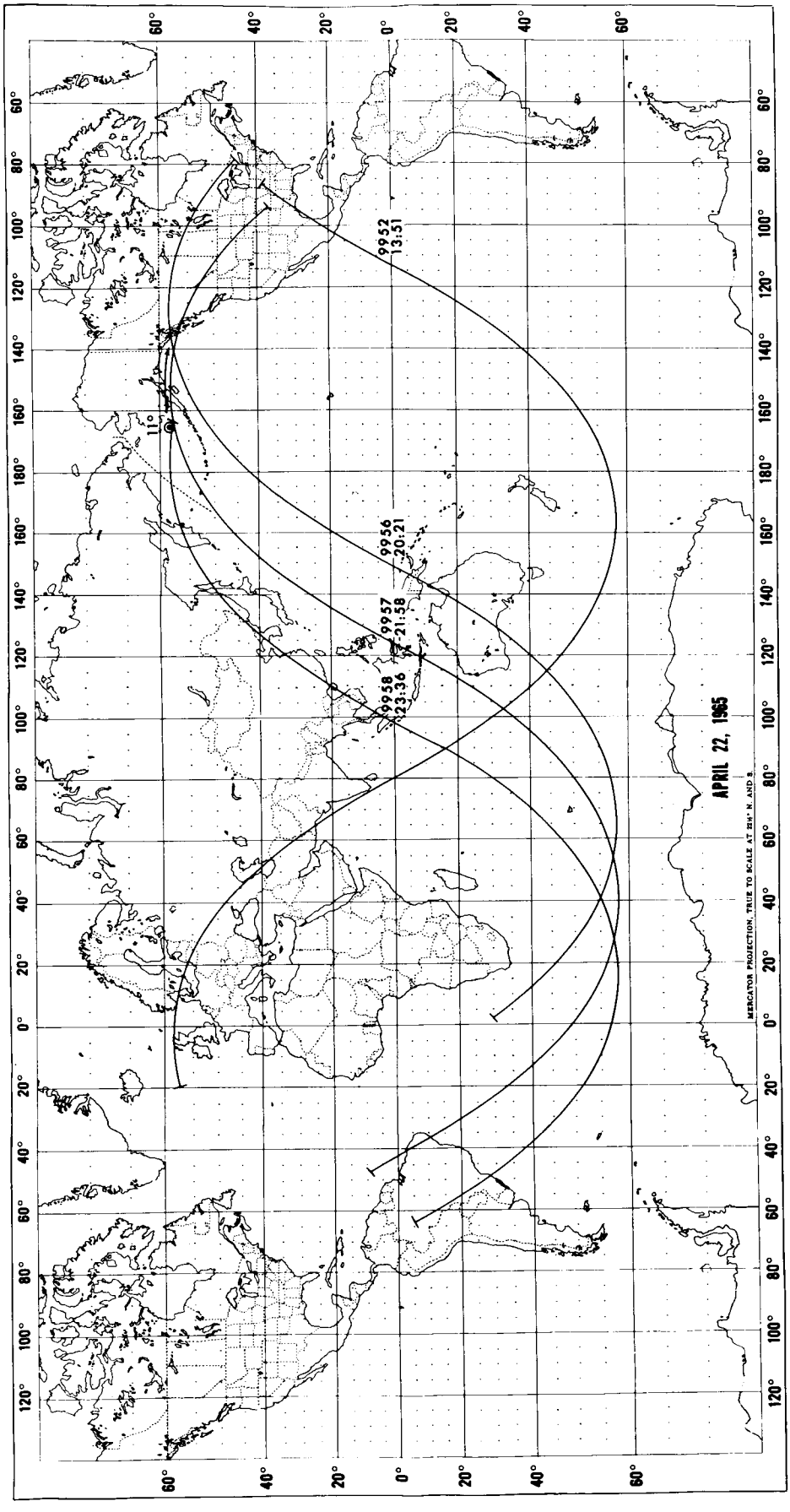
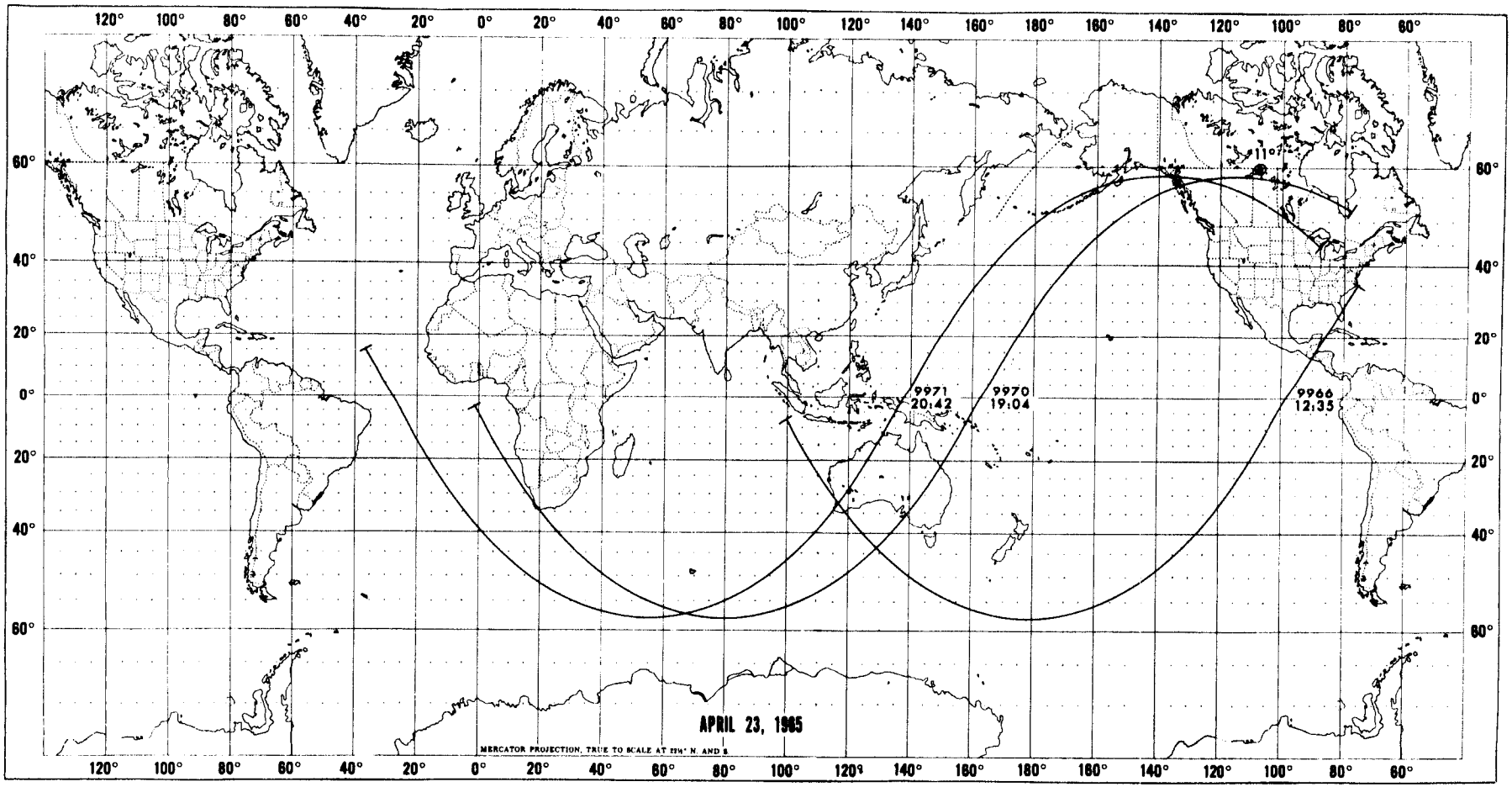
20°
40°
60°
12°
9942
21:37
9941
20:00
9937
13:30
APRIL 21, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 25½° N AND S.


9952
13:51
9956
20:21
9957
21:58
9958
23:36
11°
APRIL 22, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 23½° N. AND S.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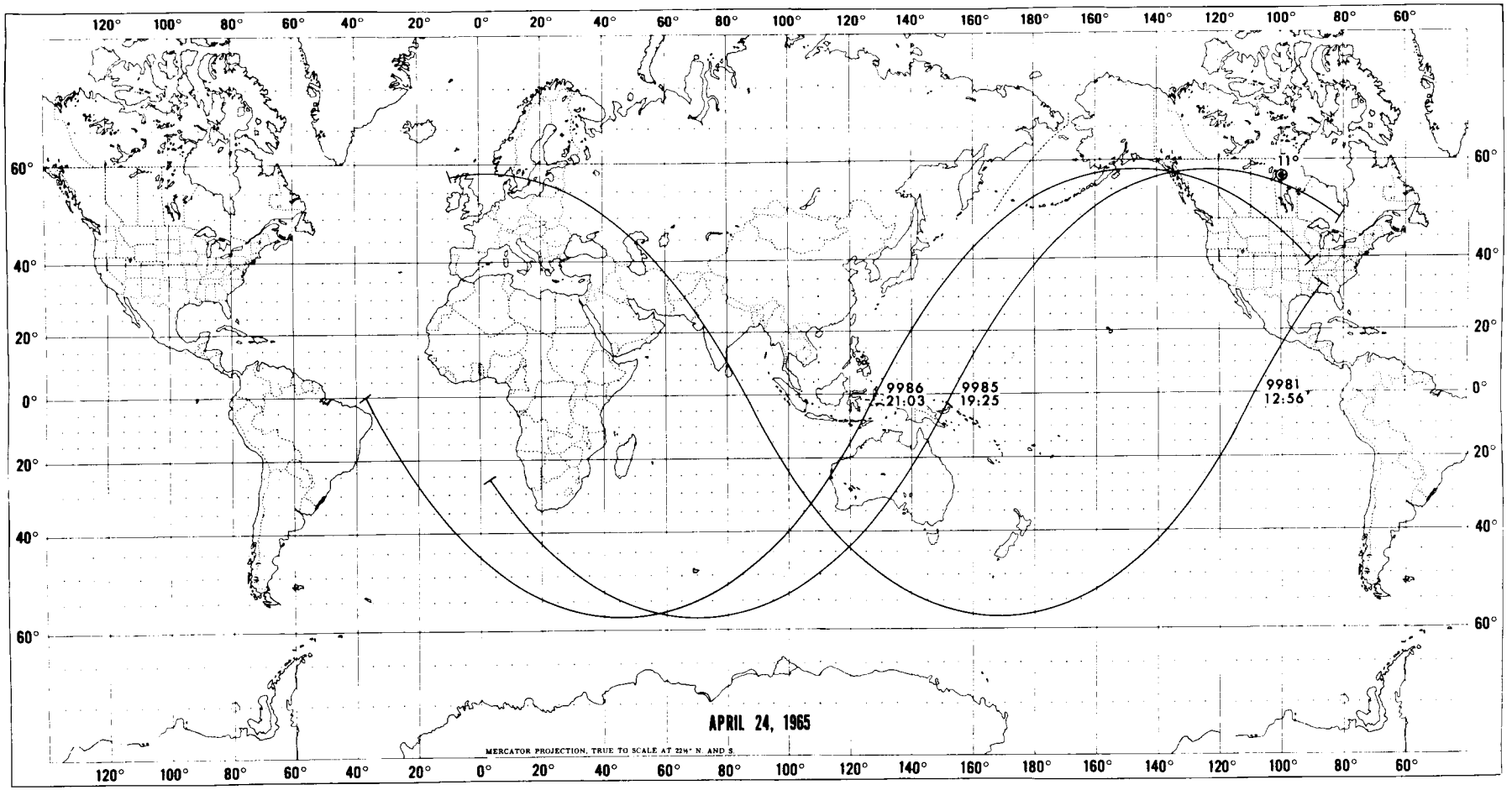
60°
40°
20°
0°
20°
40°
60°
110°
9971
20:42
9970
19:04
9966
12:35
APRIL 23, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 33½° N. AND S.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60°
40°
20°
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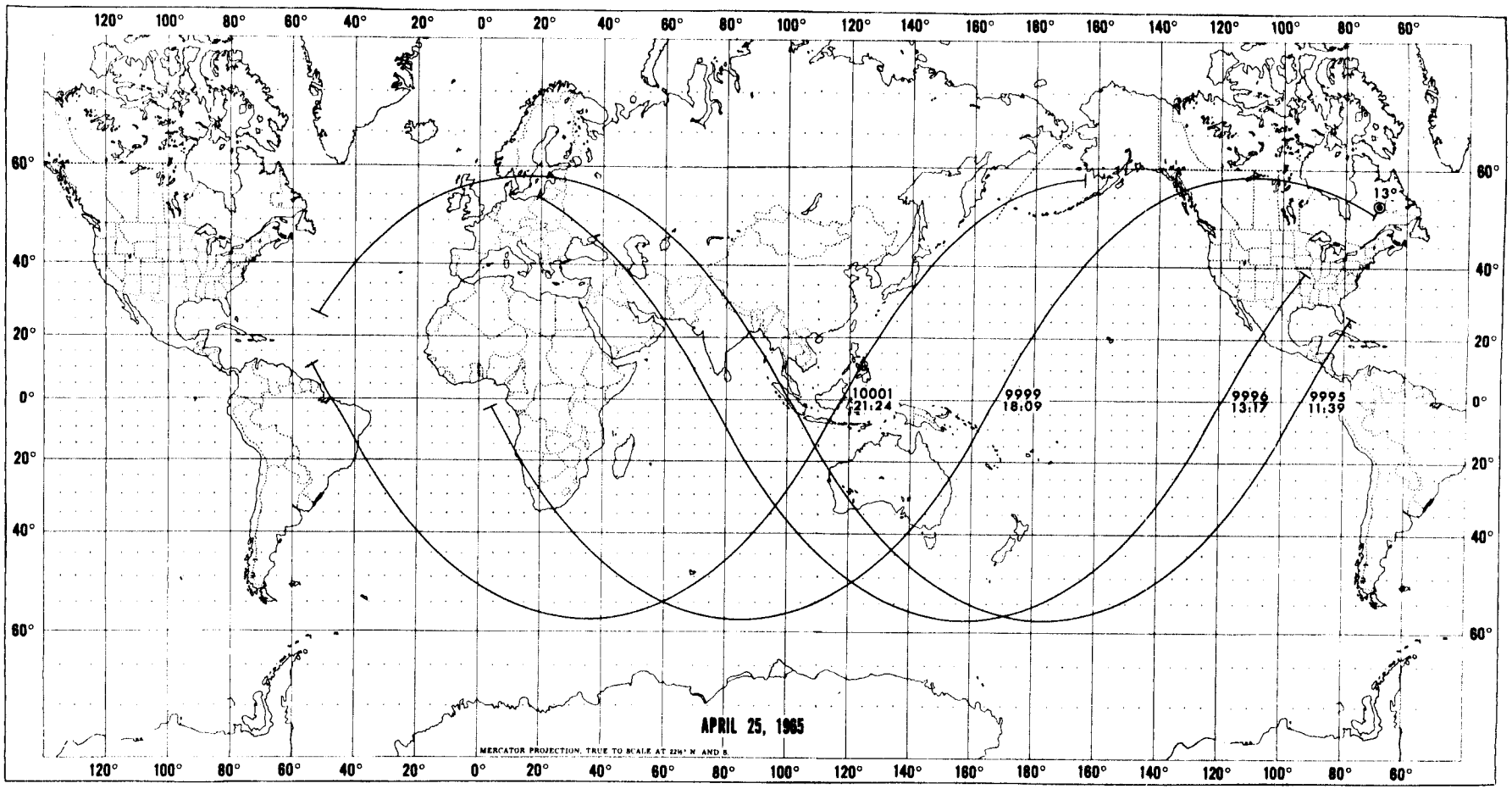
20°
40°
60°
11°
9986
21:03
9985
19:25
9981
12:56
APRIL 24, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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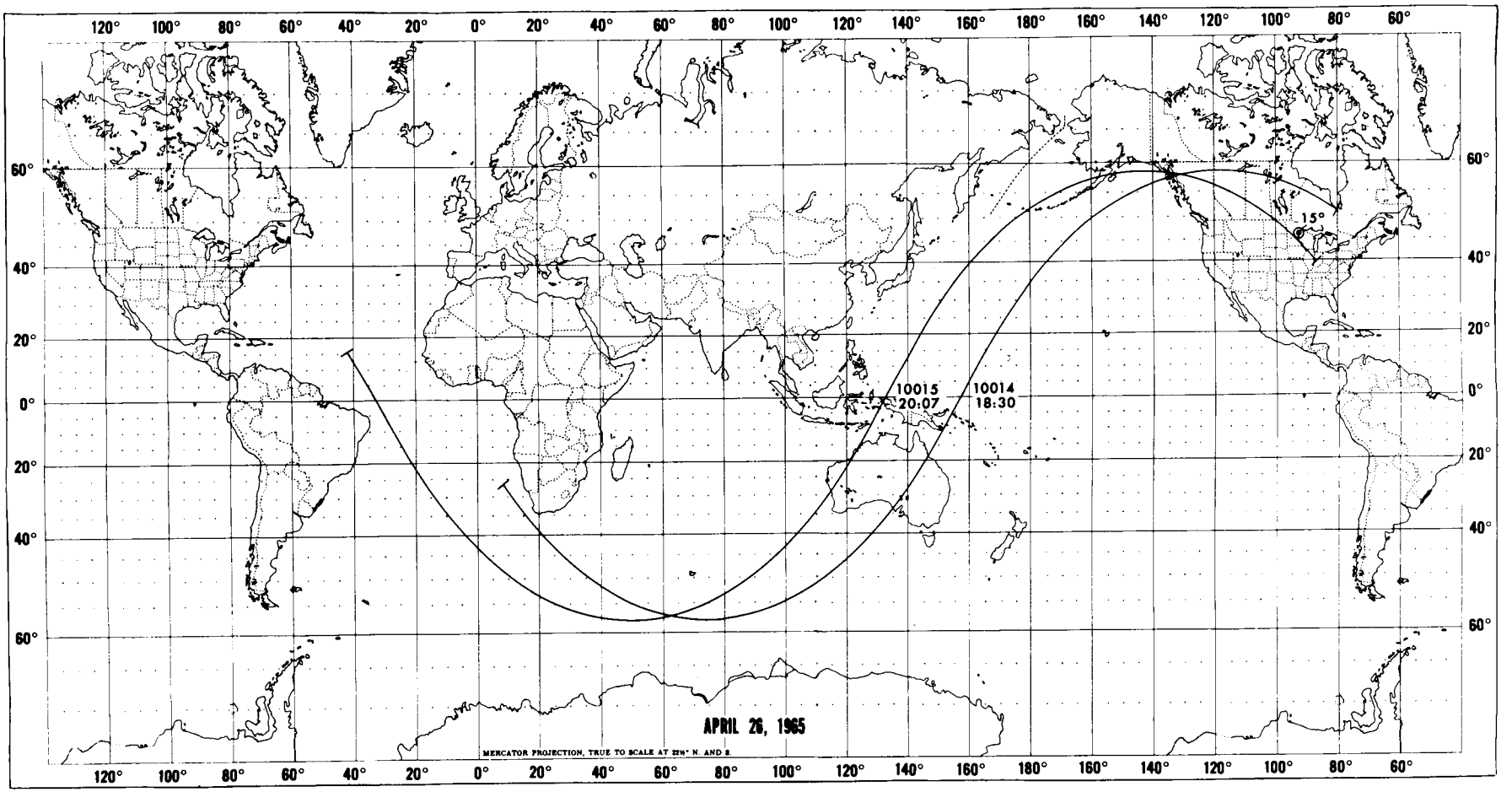
60°
40°
20°
0°
20°
40°
60°
13°
10001
21:24
9999
18:09
9996
13:17
9995
11:39
APRIL 25, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N AND S.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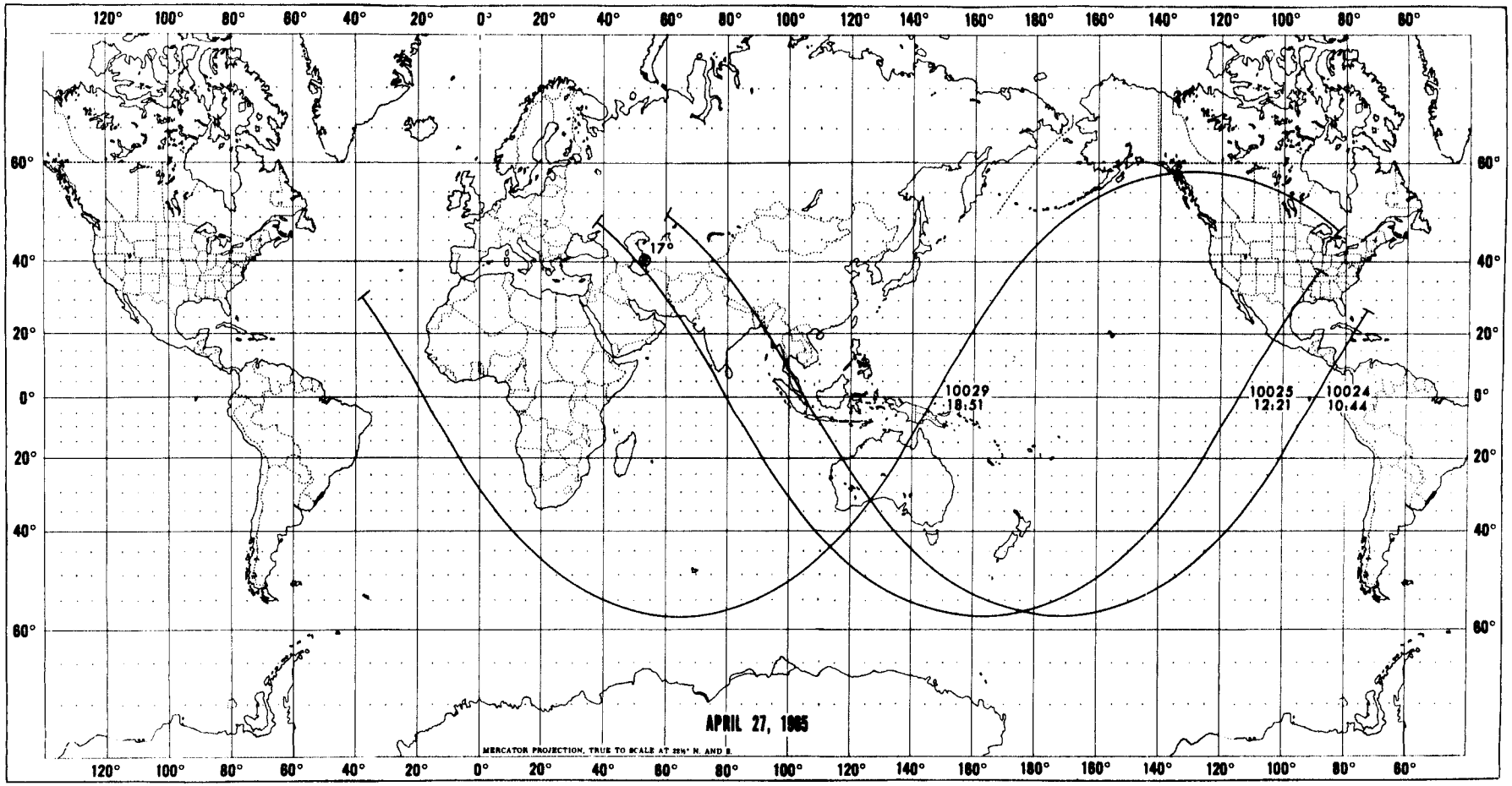
60°
40°
20°
0°
20°
40°
60°
15°
10015
20:07
10014
18:30
APRIL 26, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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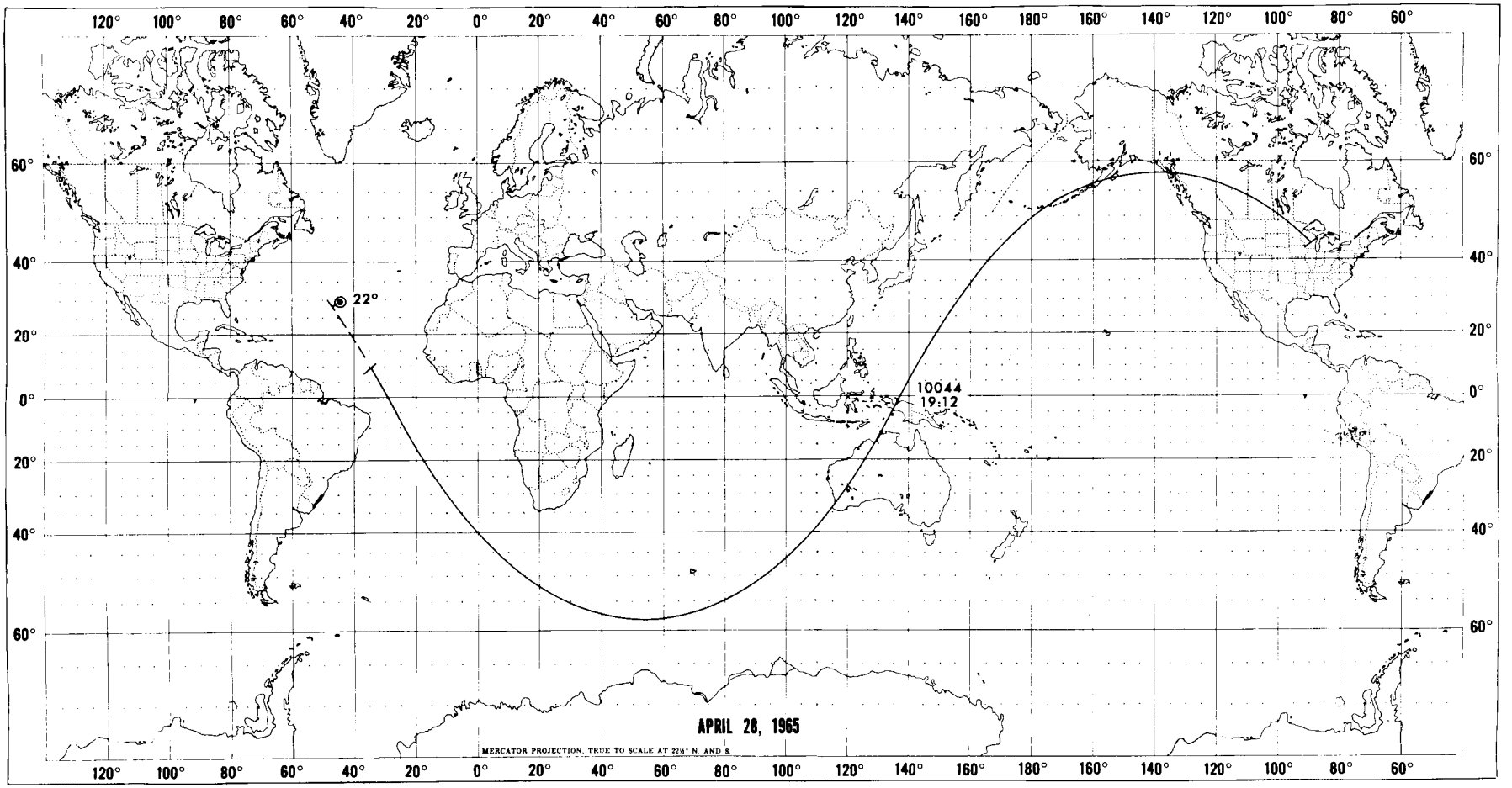
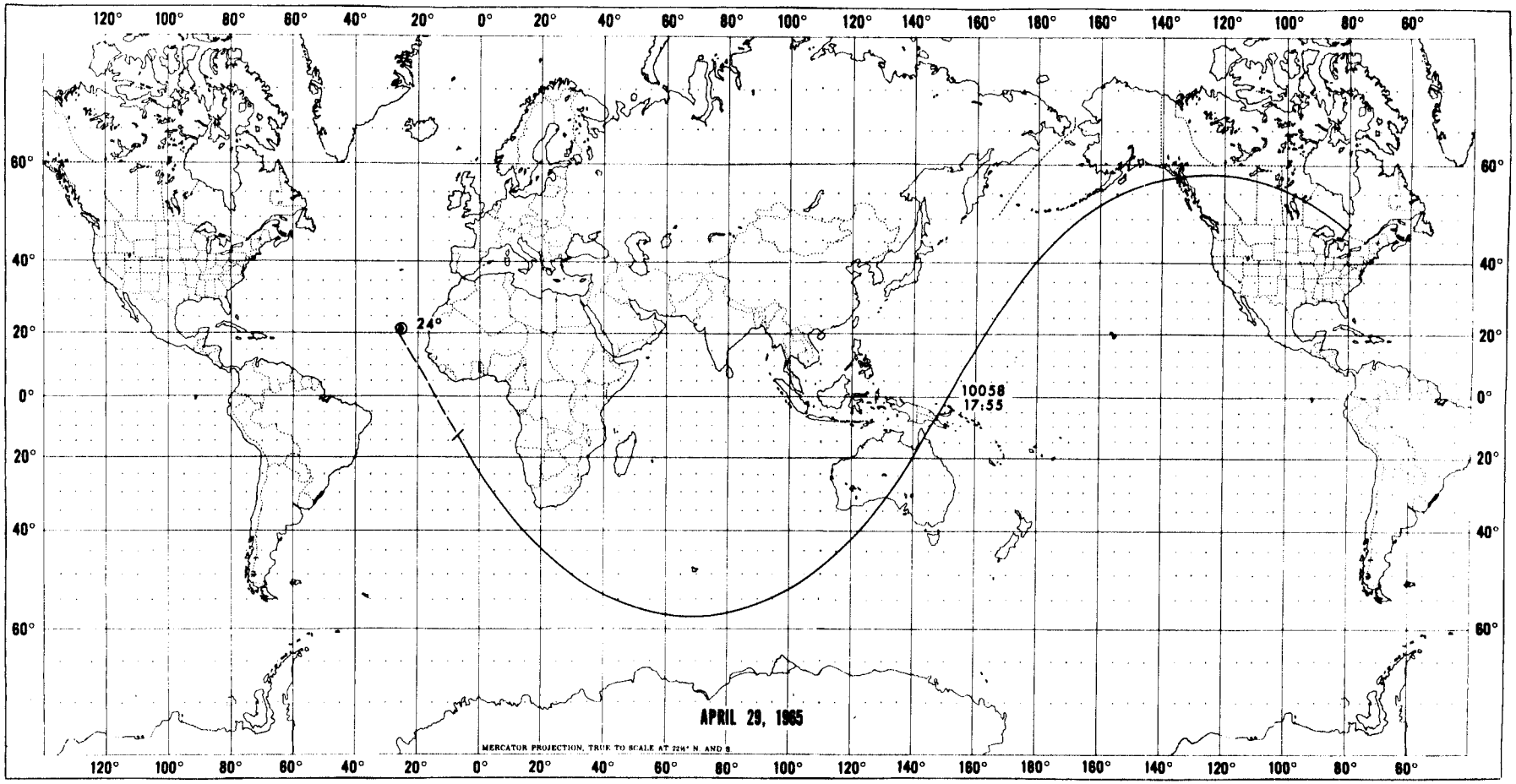
60°
40°
20°
0°
20°
40°
60°
17°
10029
18:51
10025
12:21
10024
10:44
APRIL 27, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 28½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
22°
10044
19:12
APRIL 28, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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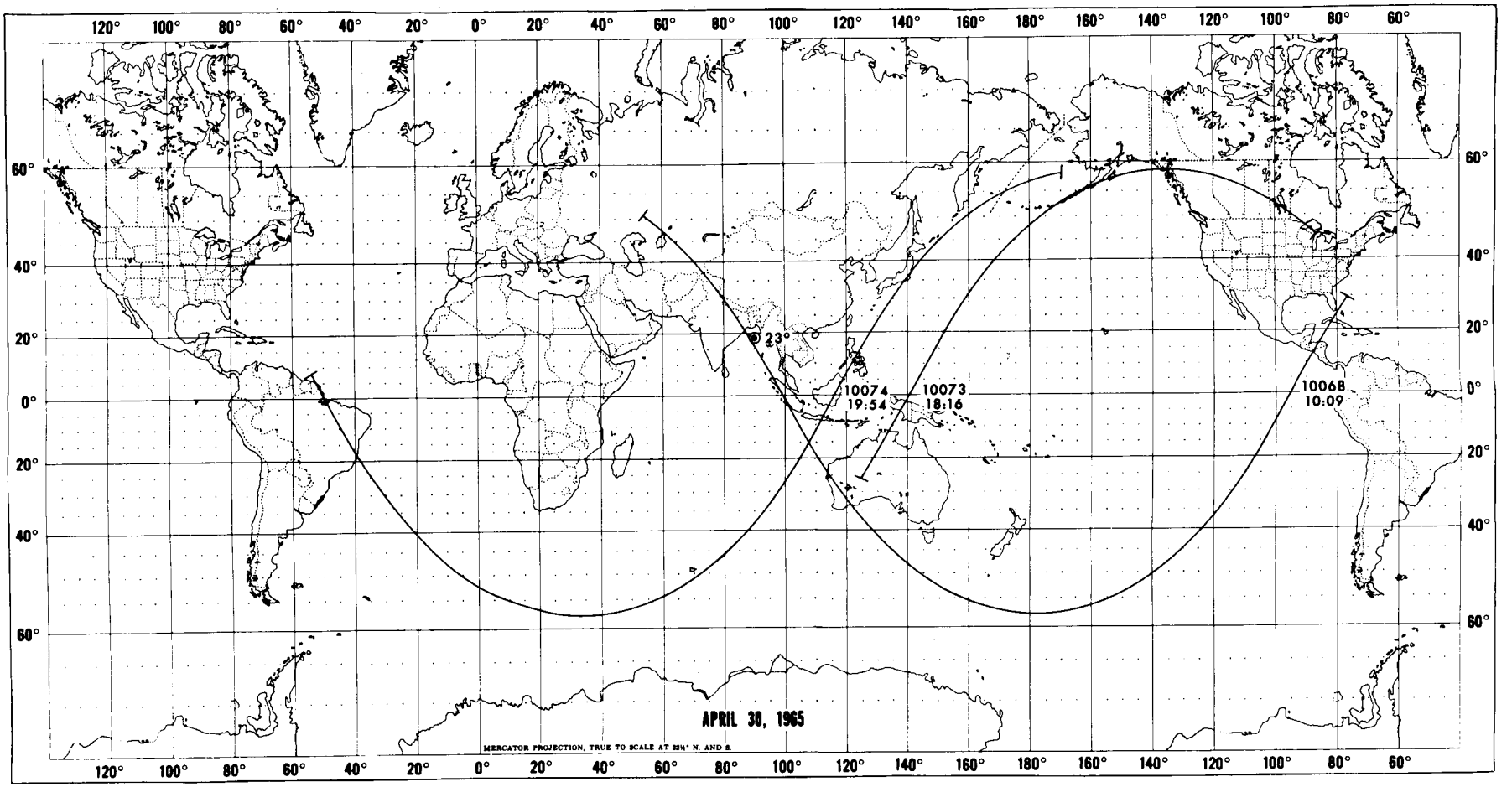
60°
40°
20°
0°
20°
40°
60°
24°
10058
17:55
APRIL 29, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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60°
40°
20°
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20°
40°
60°
23°
10074
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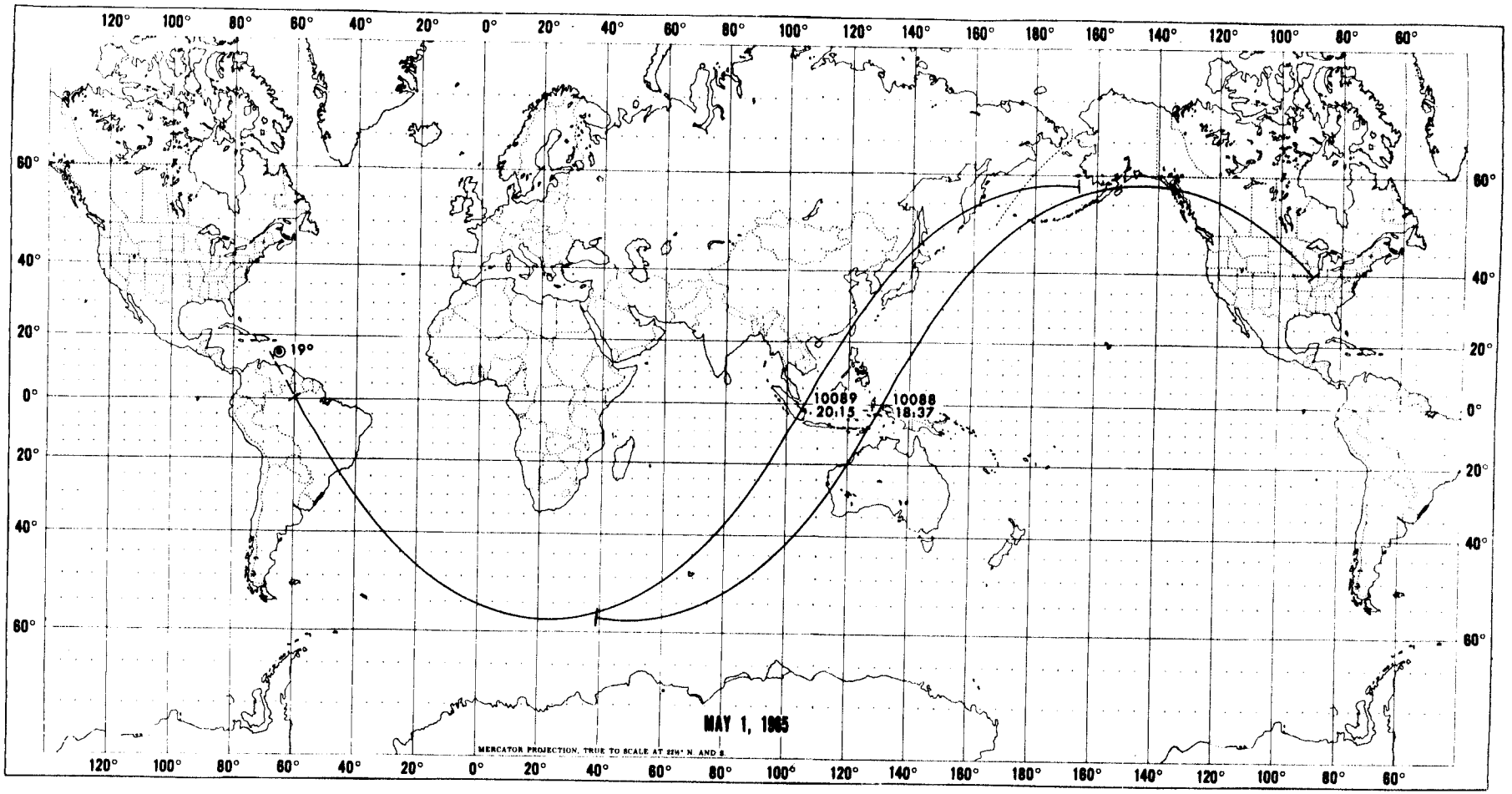
10073
18:16
10068
10:09
APRIL 30, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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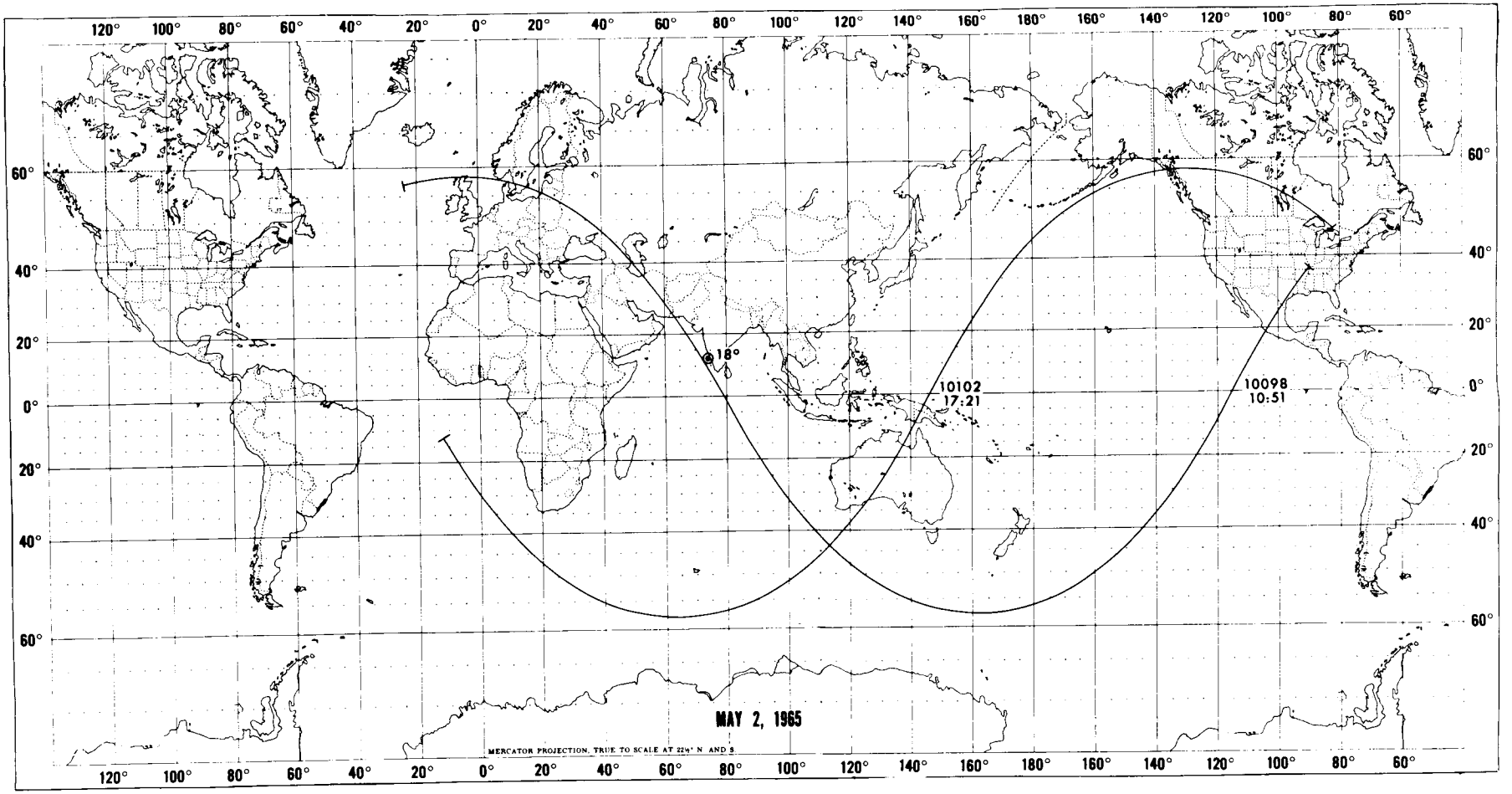
60°
40°
20°
0°
20°
40°
60°
19°
10089
20.15
10088
18.37
MAY 1, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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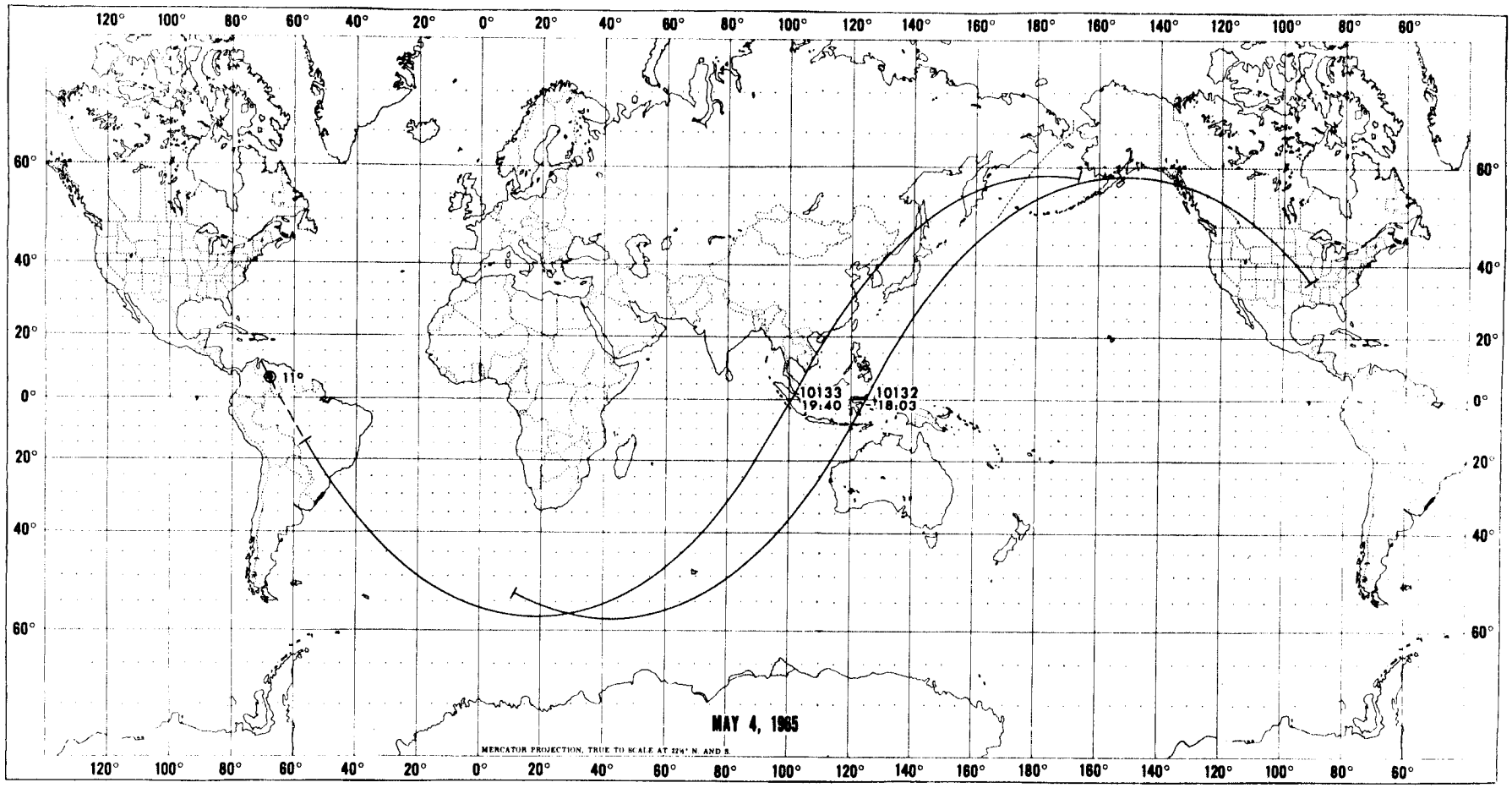
60°
40°
20°
0°
20°
40°
60°
18°
10102
17:21
10098
10:51
MAY 2, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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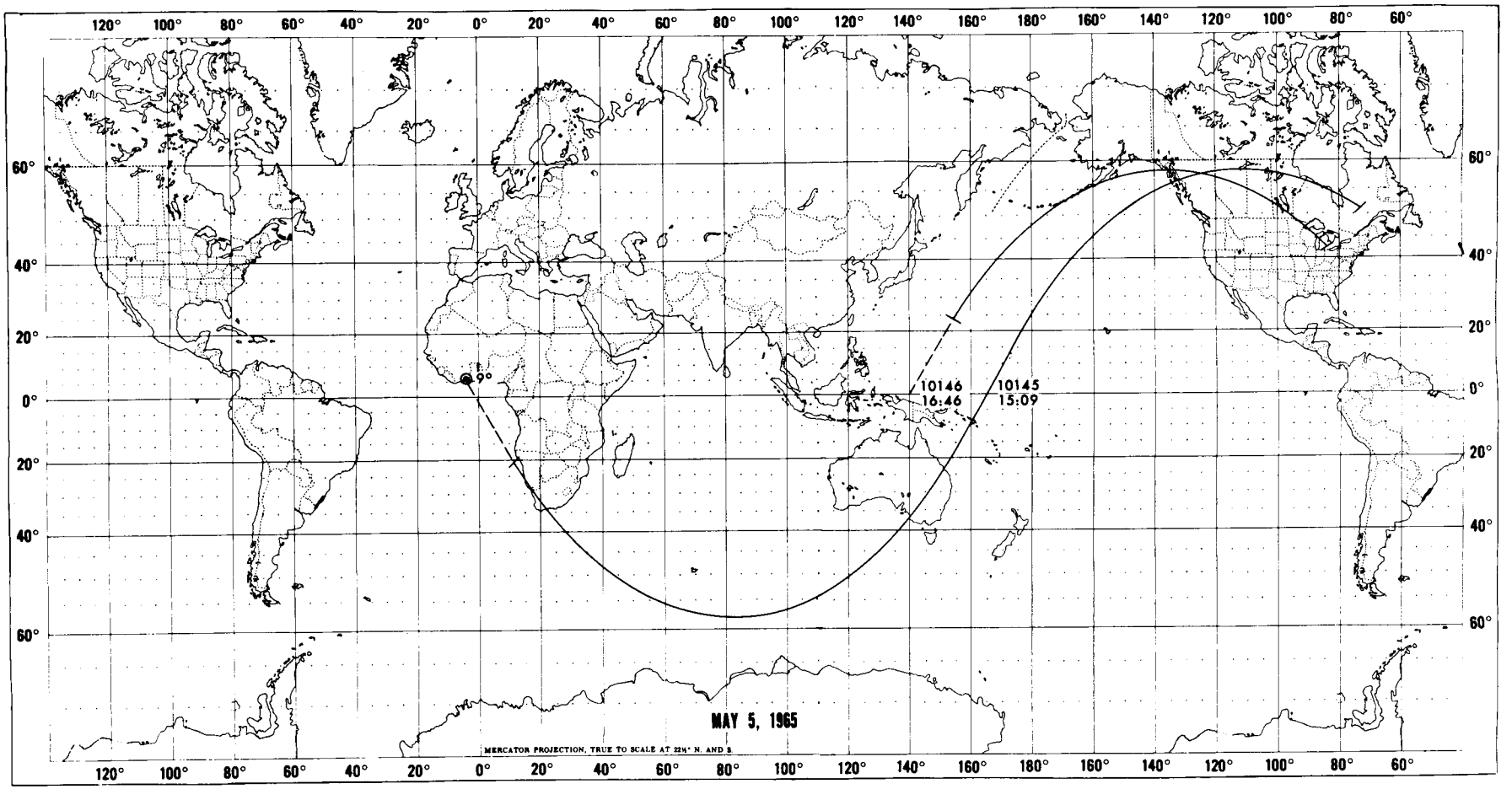
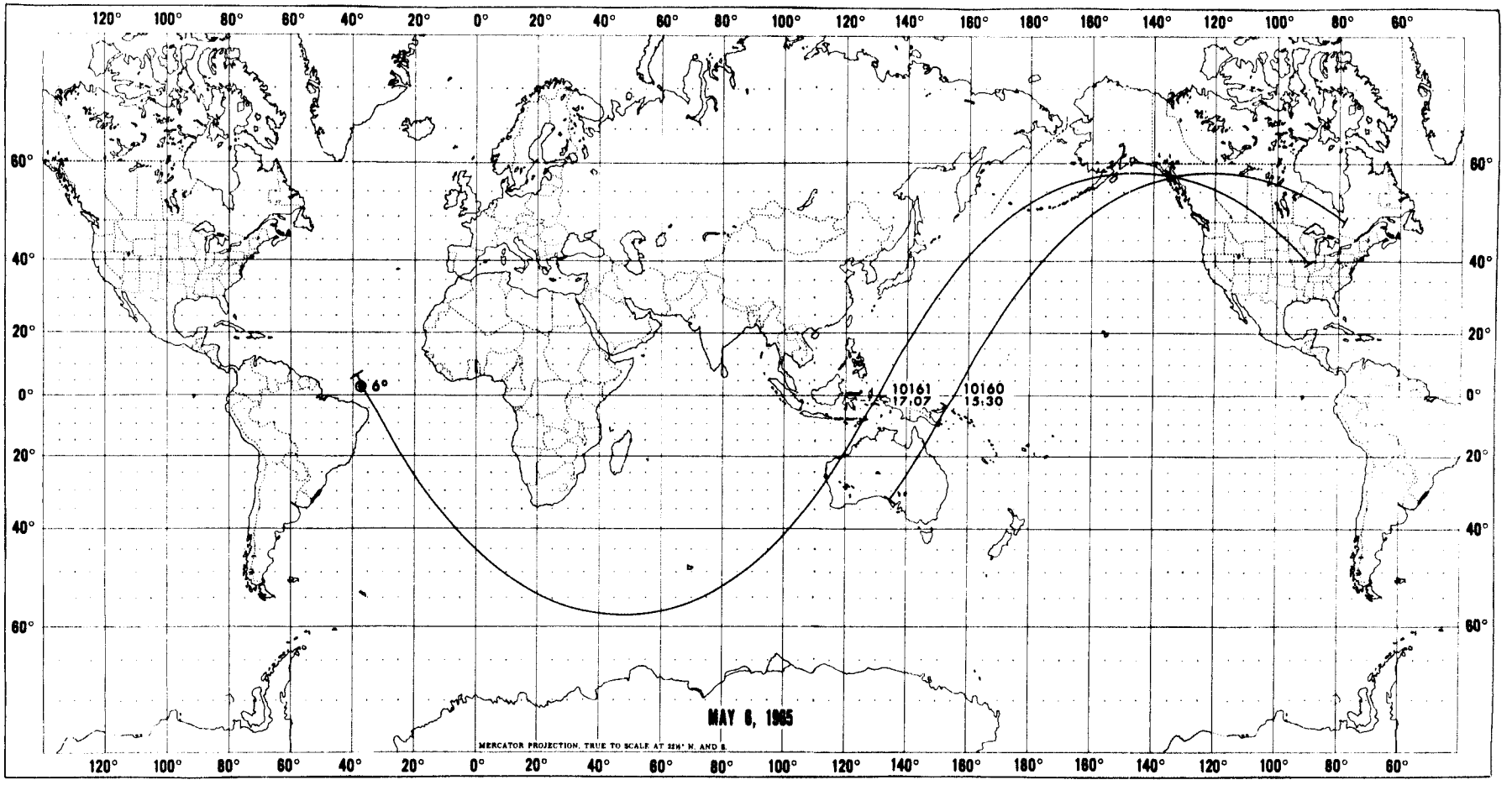
60°
40°
20°
0°
20°
40°
60°
11°
10133
19:40
10132
18:03
MAY 4, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 32½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
9°
10146
16:46
10145
15:09
MAY 5, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S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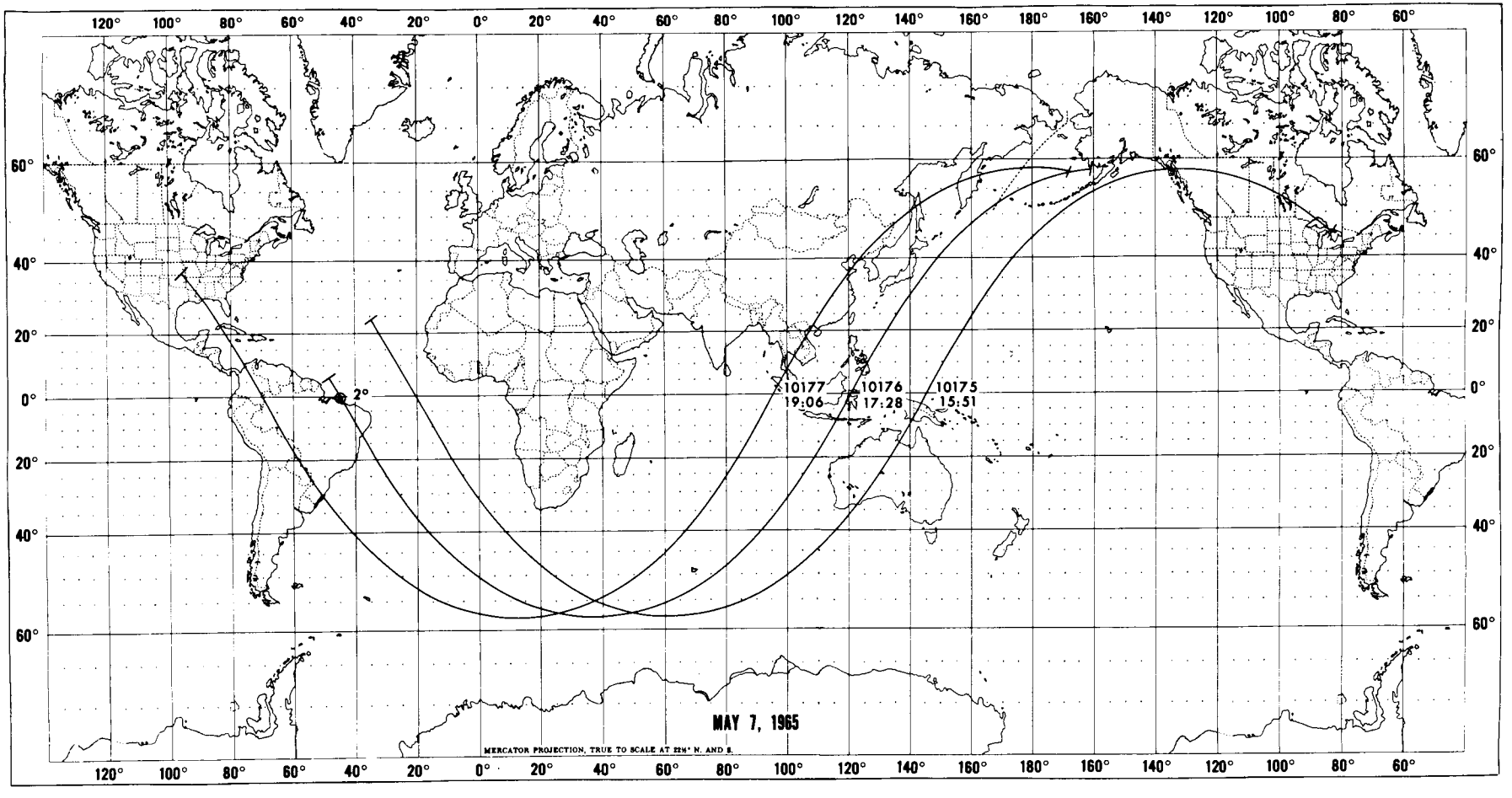
60°
40°
20°
0°
20°
40°
60°
6°
10161
17:07
10160
15:30
MAY 6, 1965
MERCATOR PROJECTION. TRUE TO SCALE AT 22½° N. AND S.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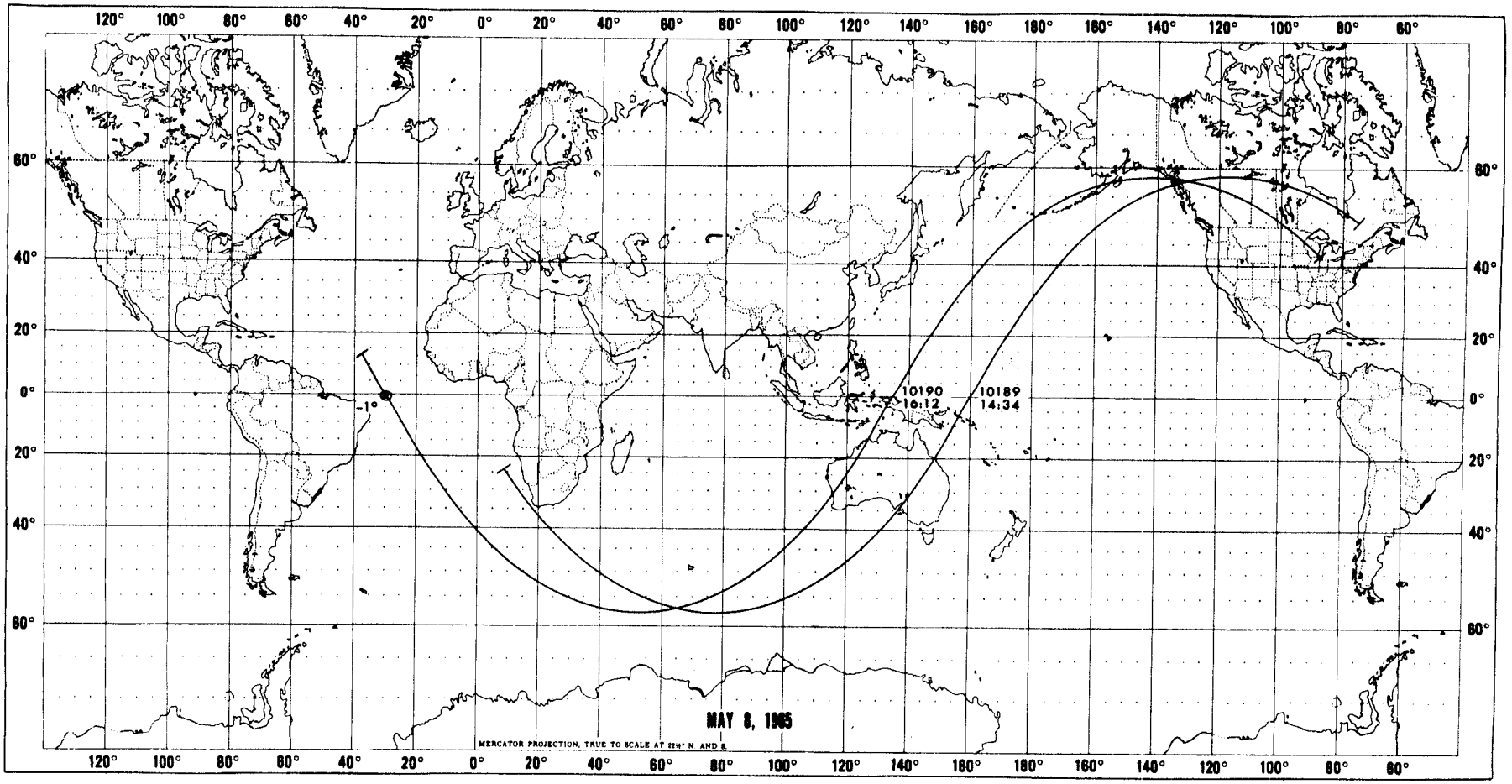
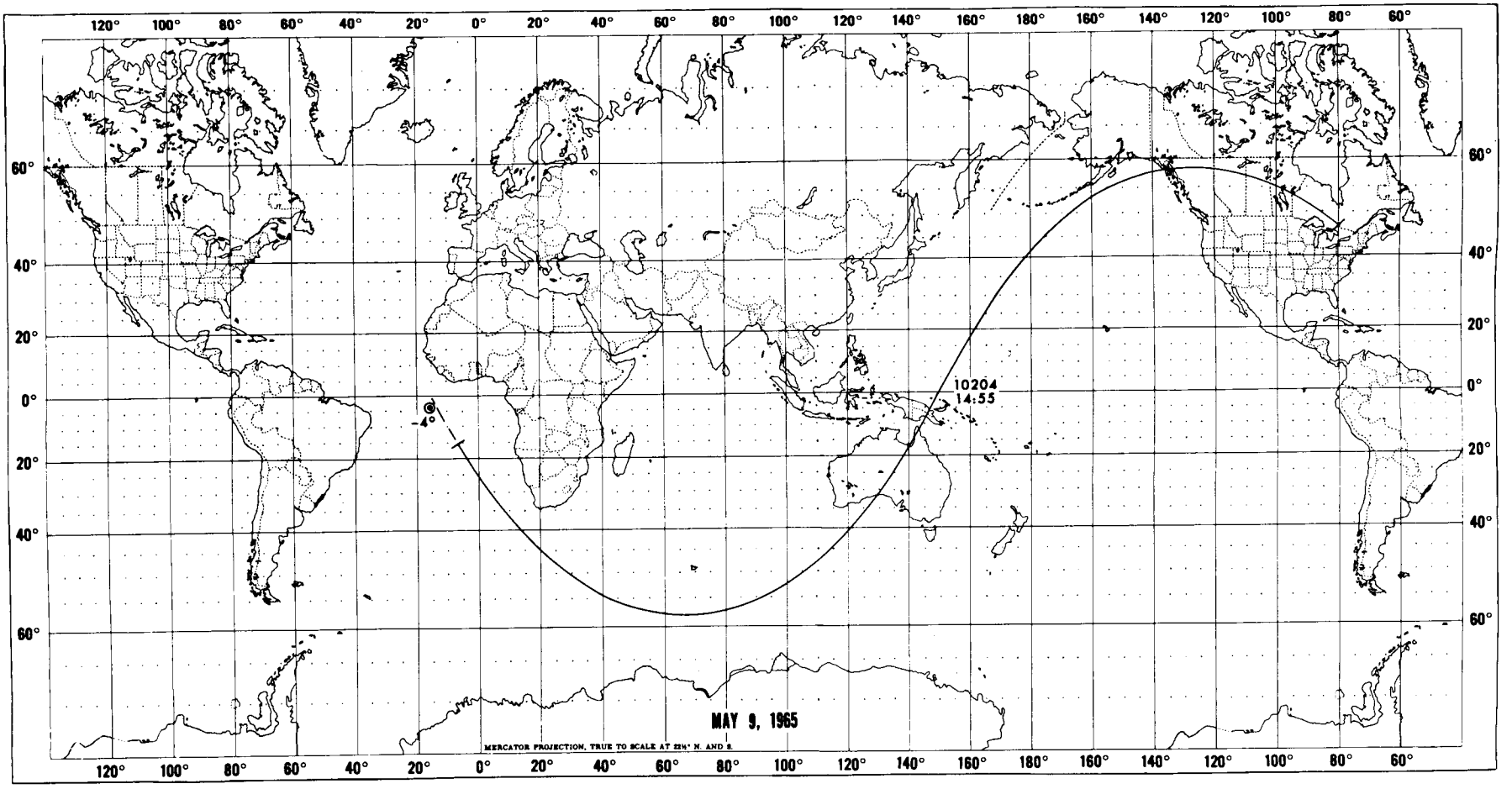
60°
40°
20°
0°
20°
40°
60°
2°
10177
19:06
10176
17:28
10175
15:51
MAY 7, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
-1°
10190
16:12
10189
14:34
MAY 8, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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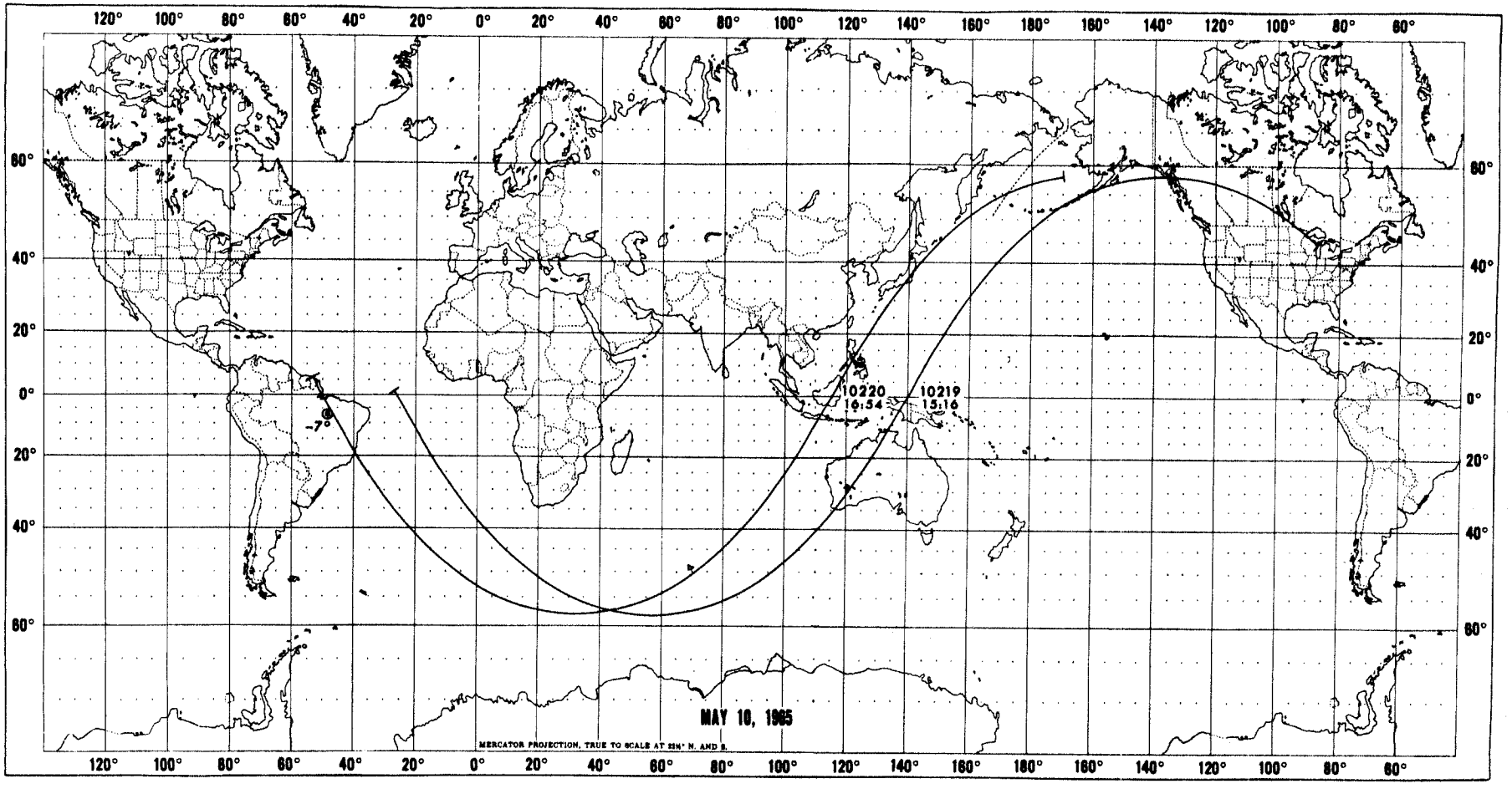
60°
40°
20°
0°
20°
40°
60°
10204
14:55
-4°
MAY 9, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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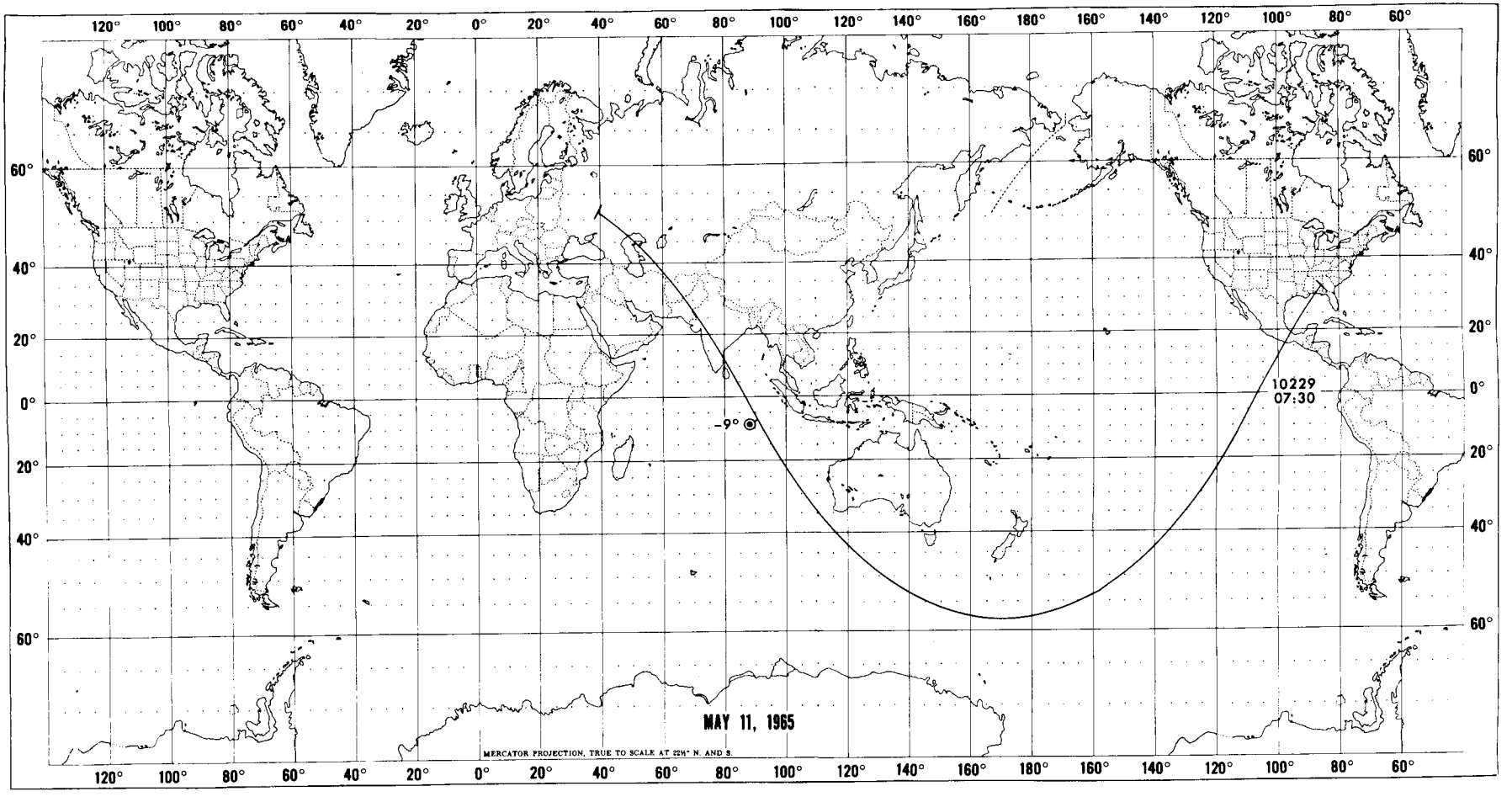
80°
40°
20°
0°
20°
40°
60°
10220
16:54
10219
15:16
-7°
MAY 16, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 28½° N. AND S.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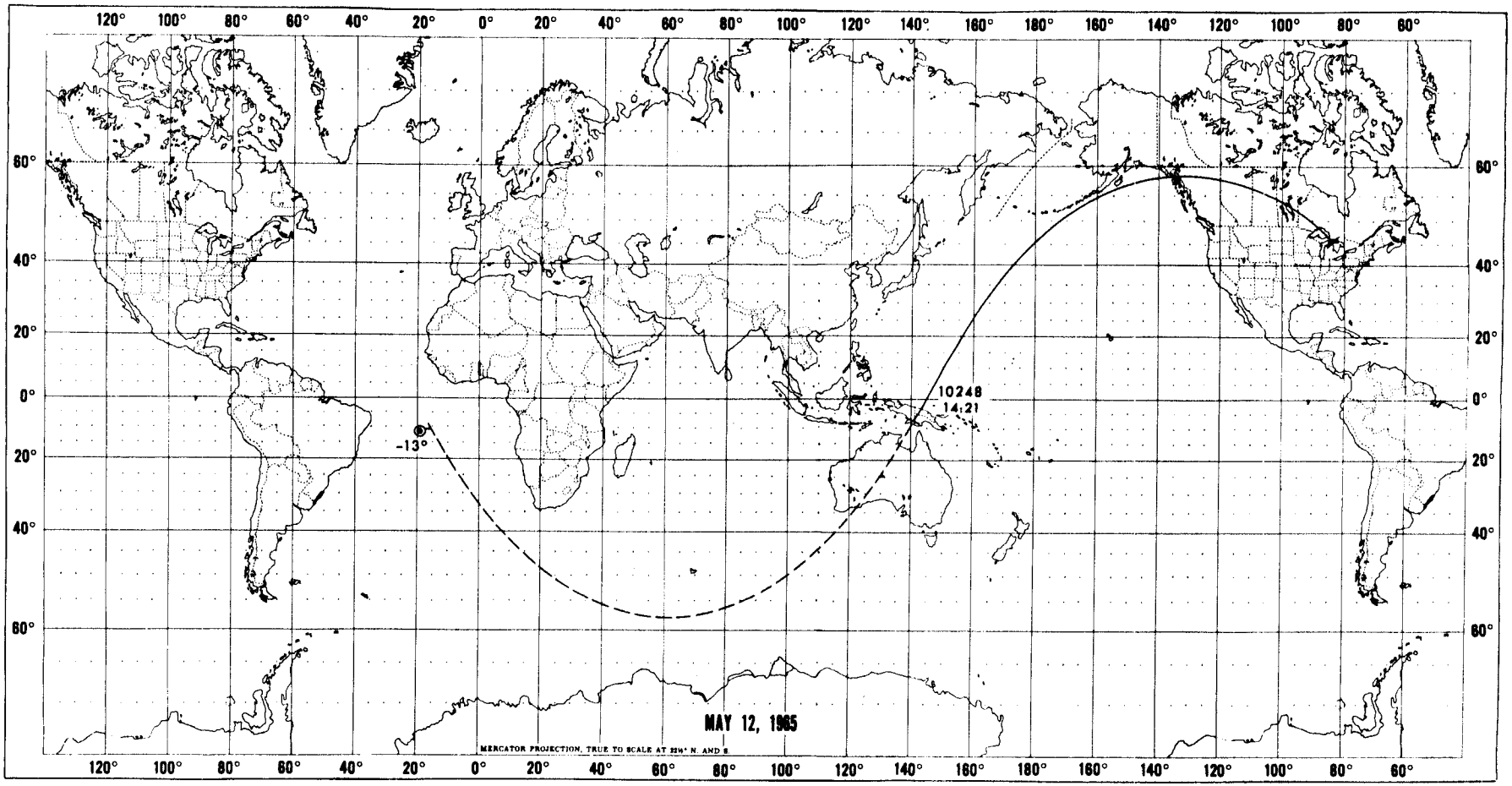
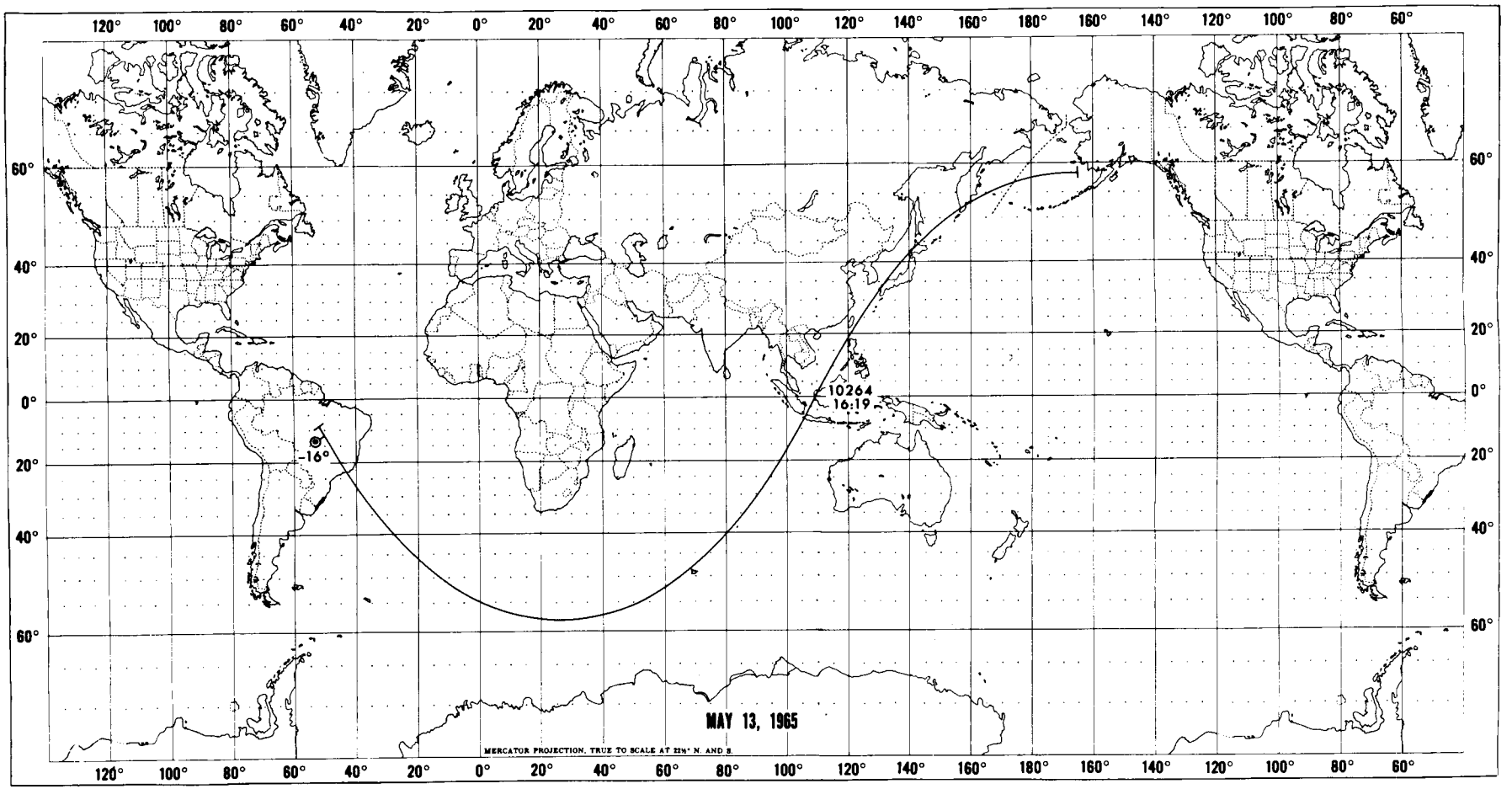
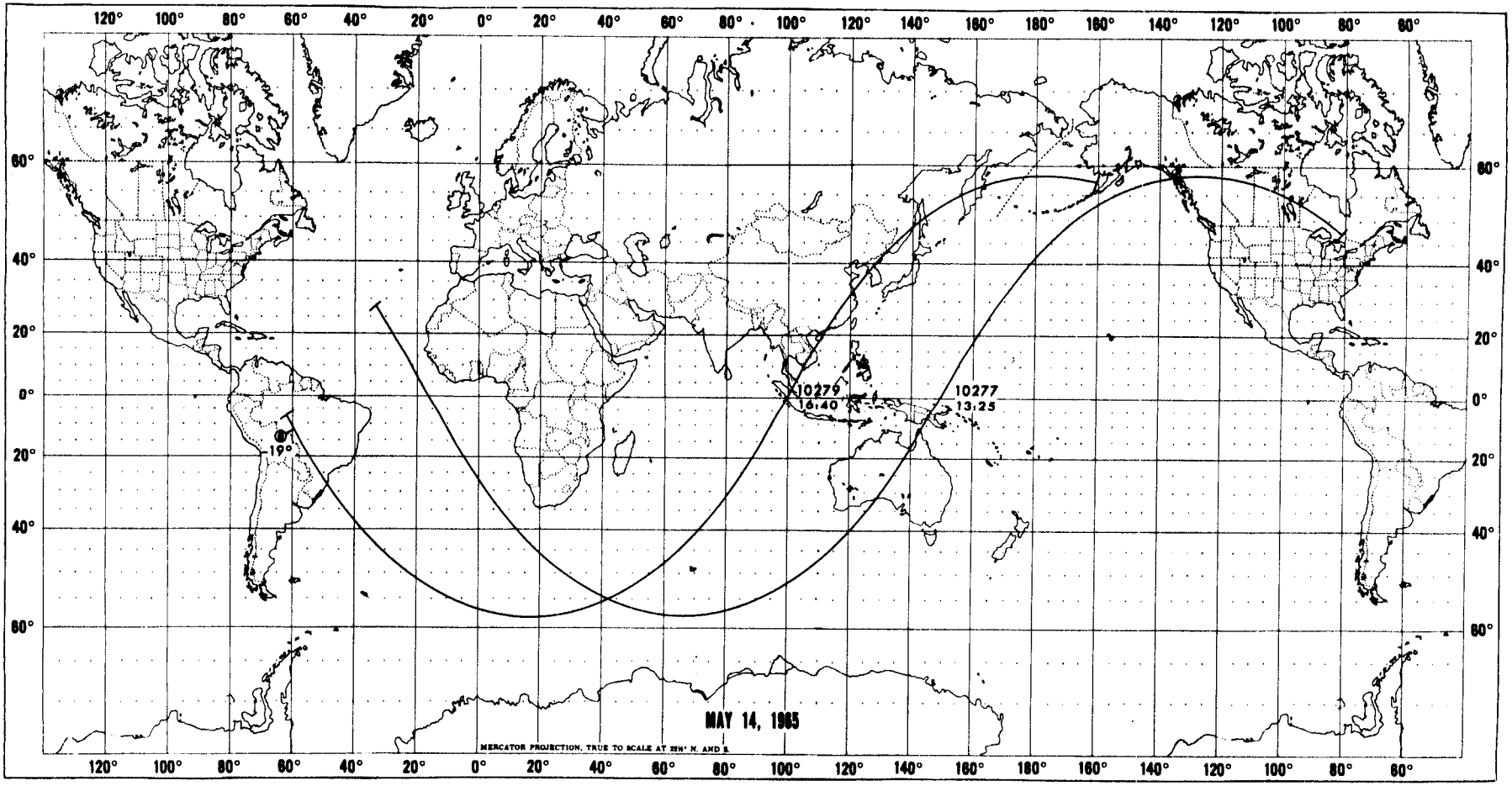
60°
40°
20°
0°
20°
40°
60°
-9°
10229
07:30
MAY 11, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
80°
40°
20°
0°
20°
40°
60°
-13°
10248
14:21
MAY 12, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 33½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
10264
16:19
-16°
MAY 13, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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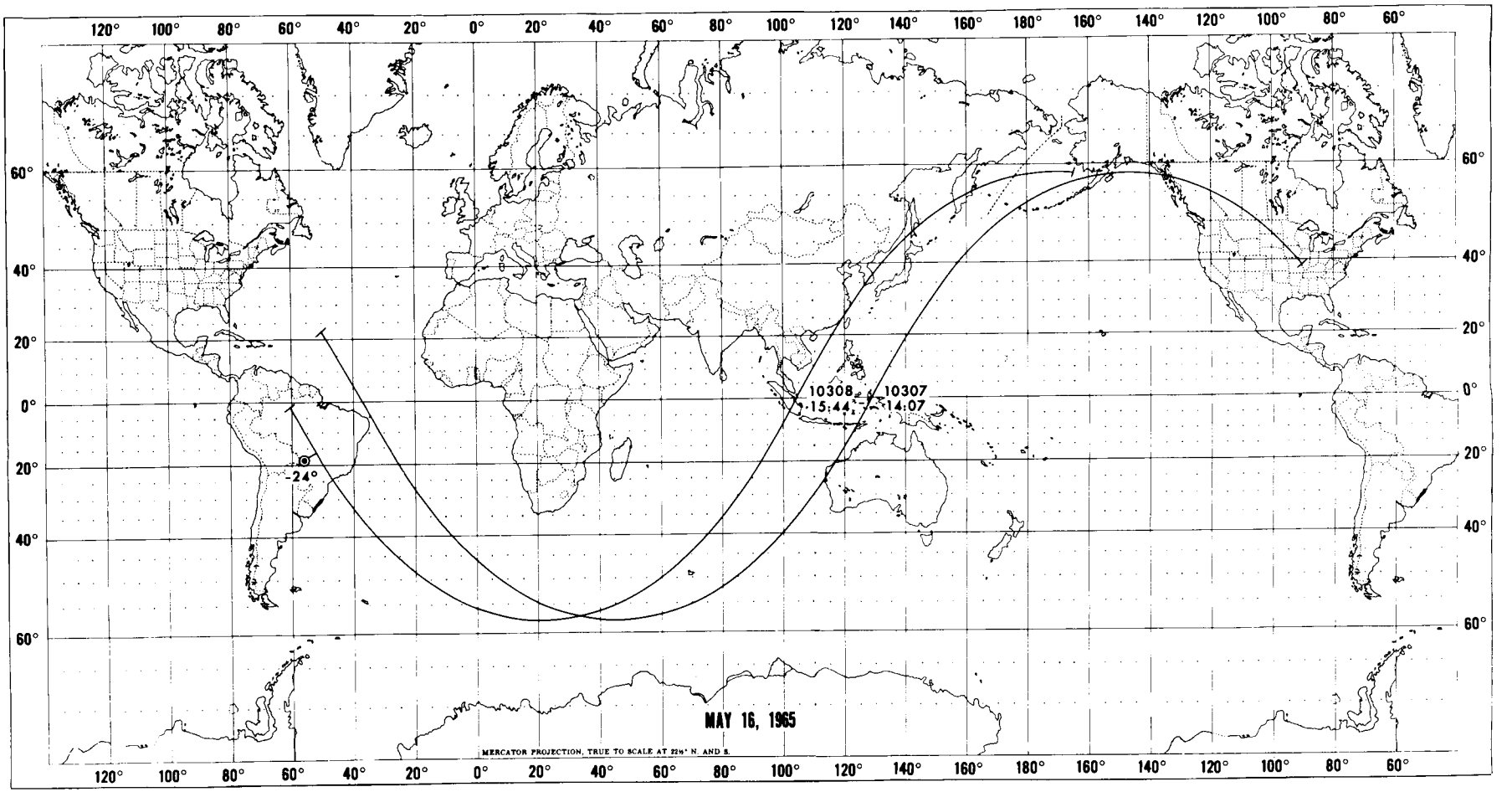
60°
40°
20°
0°
20°
40°
60°
10279
16:40
10277
13:25
19°
MAY 14, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 25½° N. AND S.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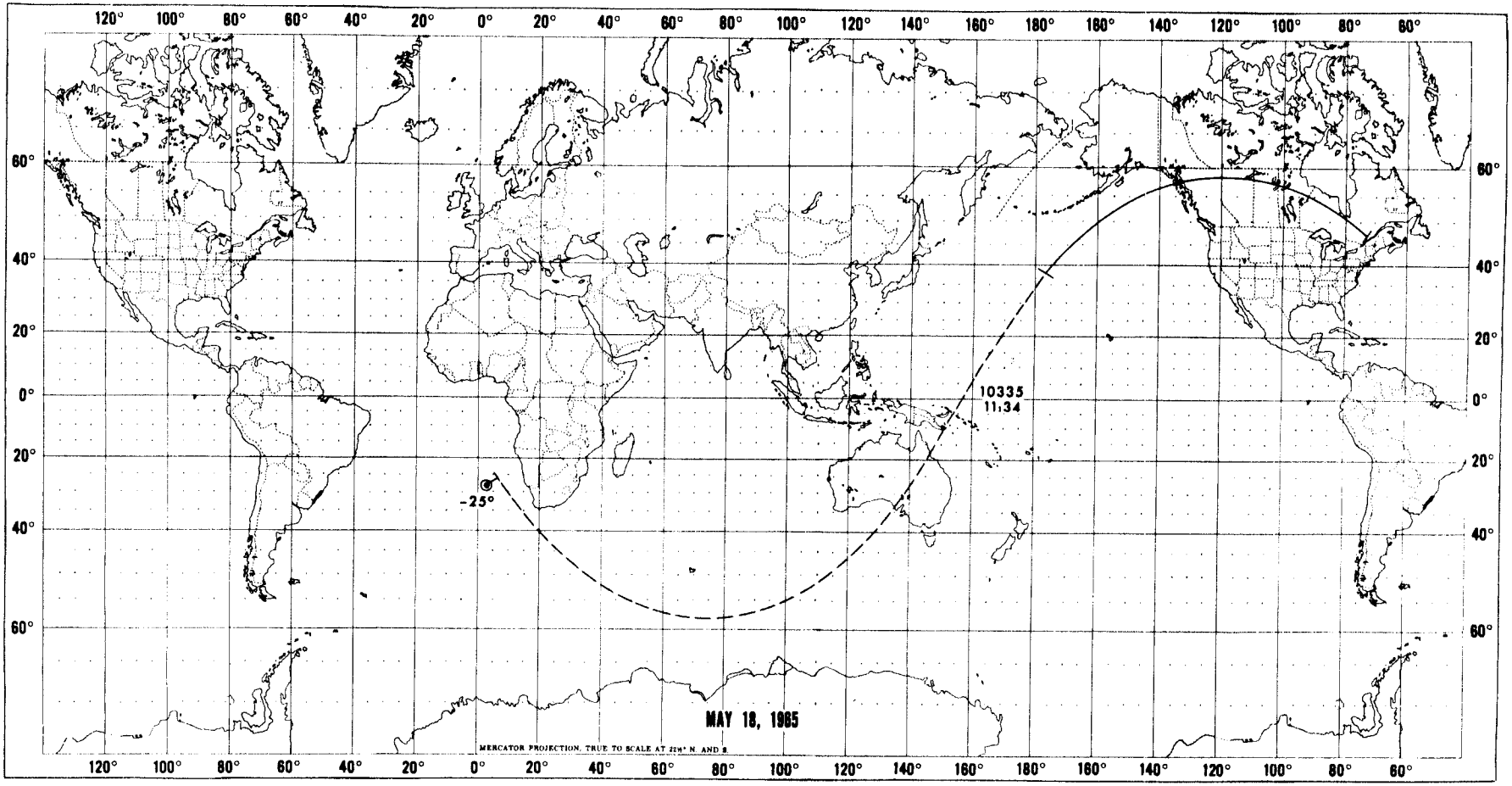
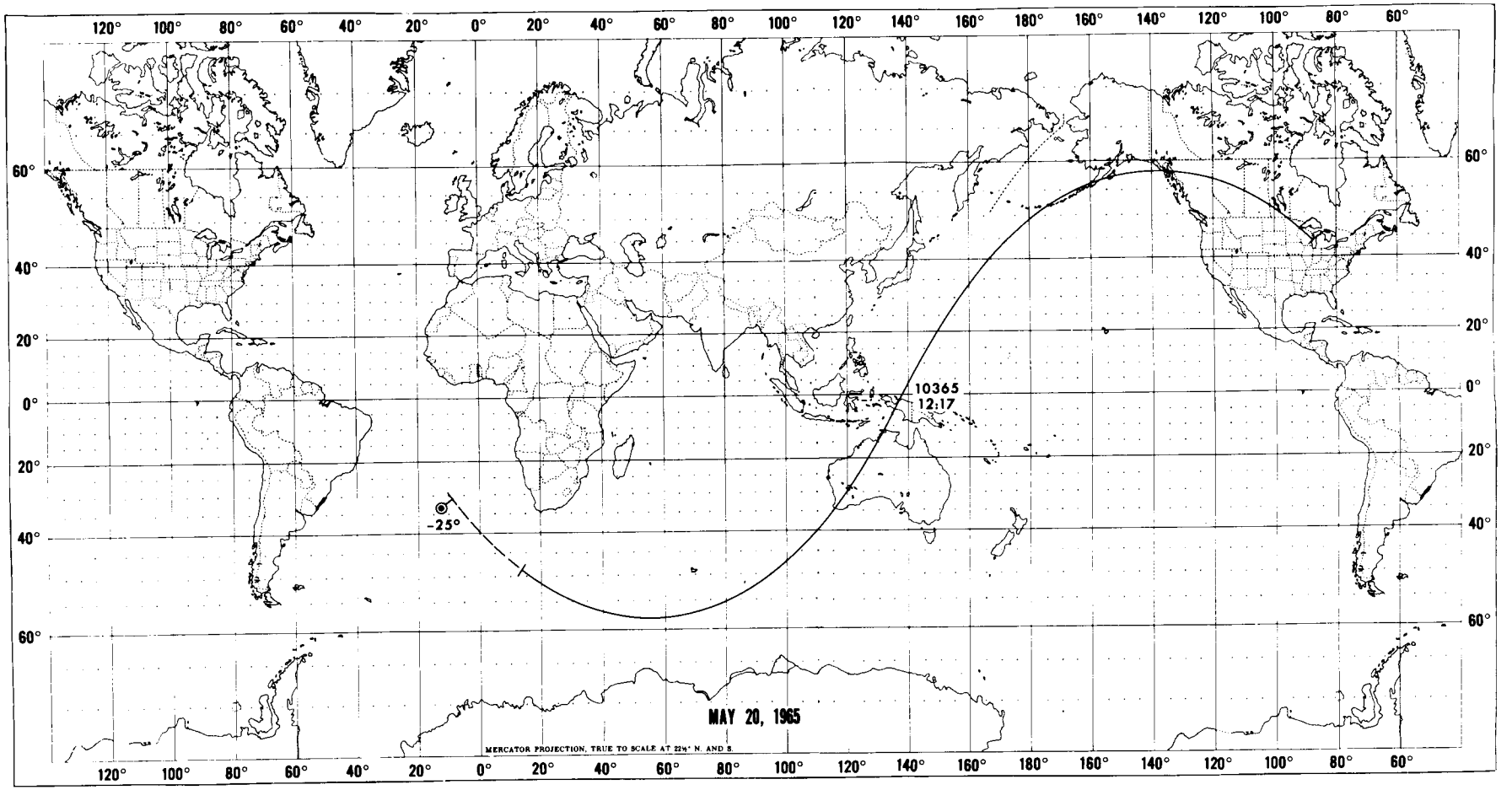
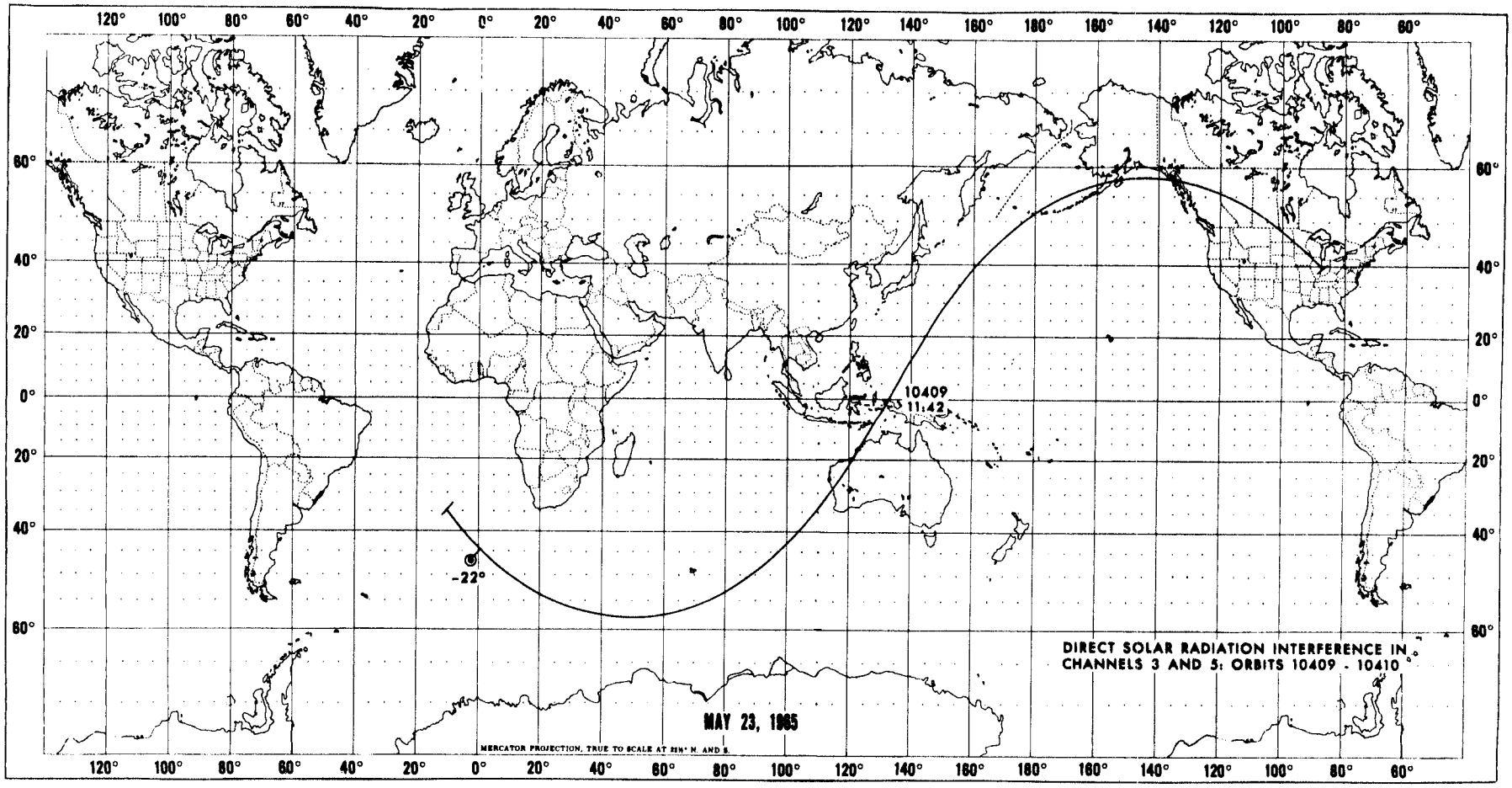
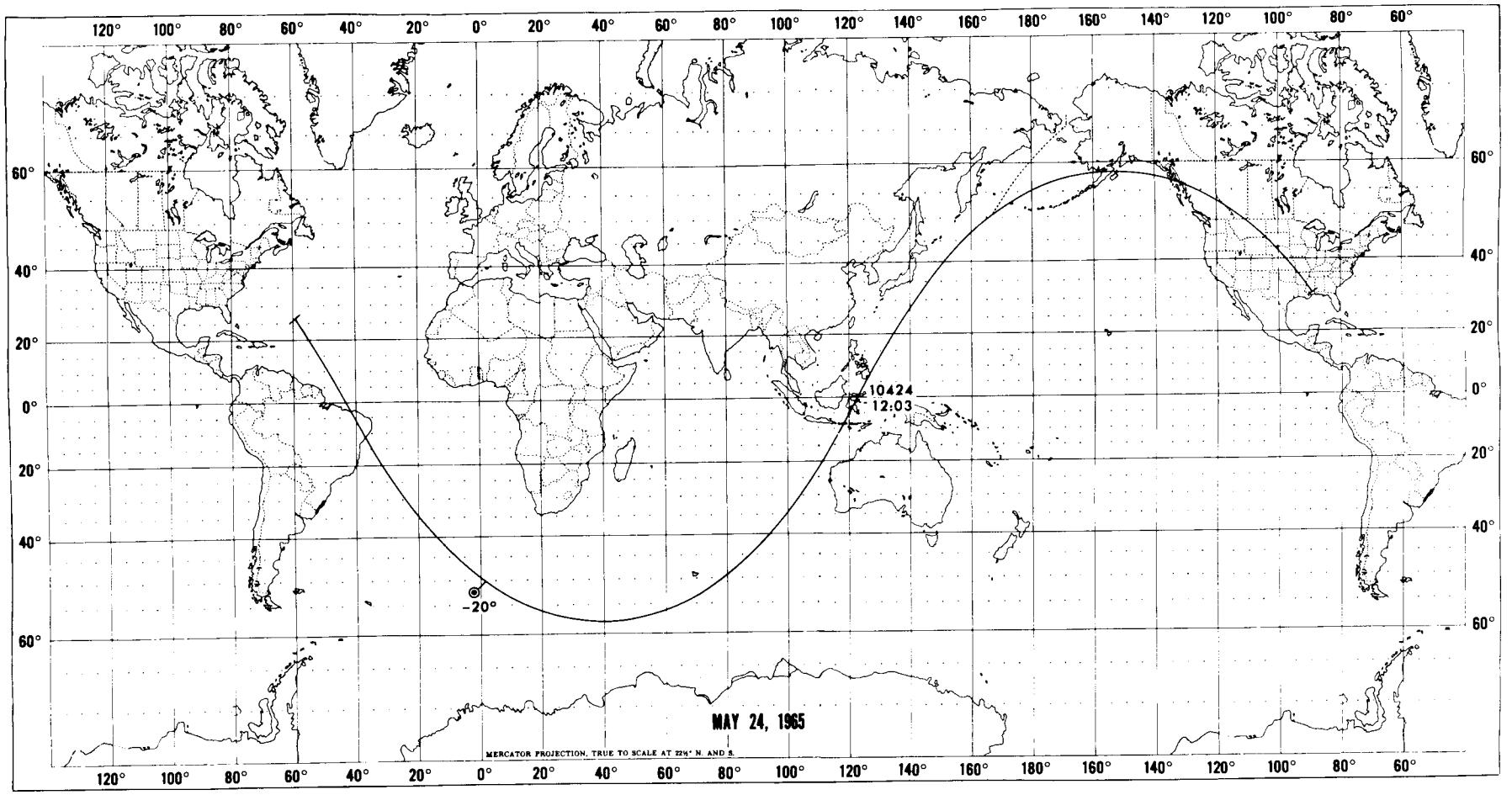
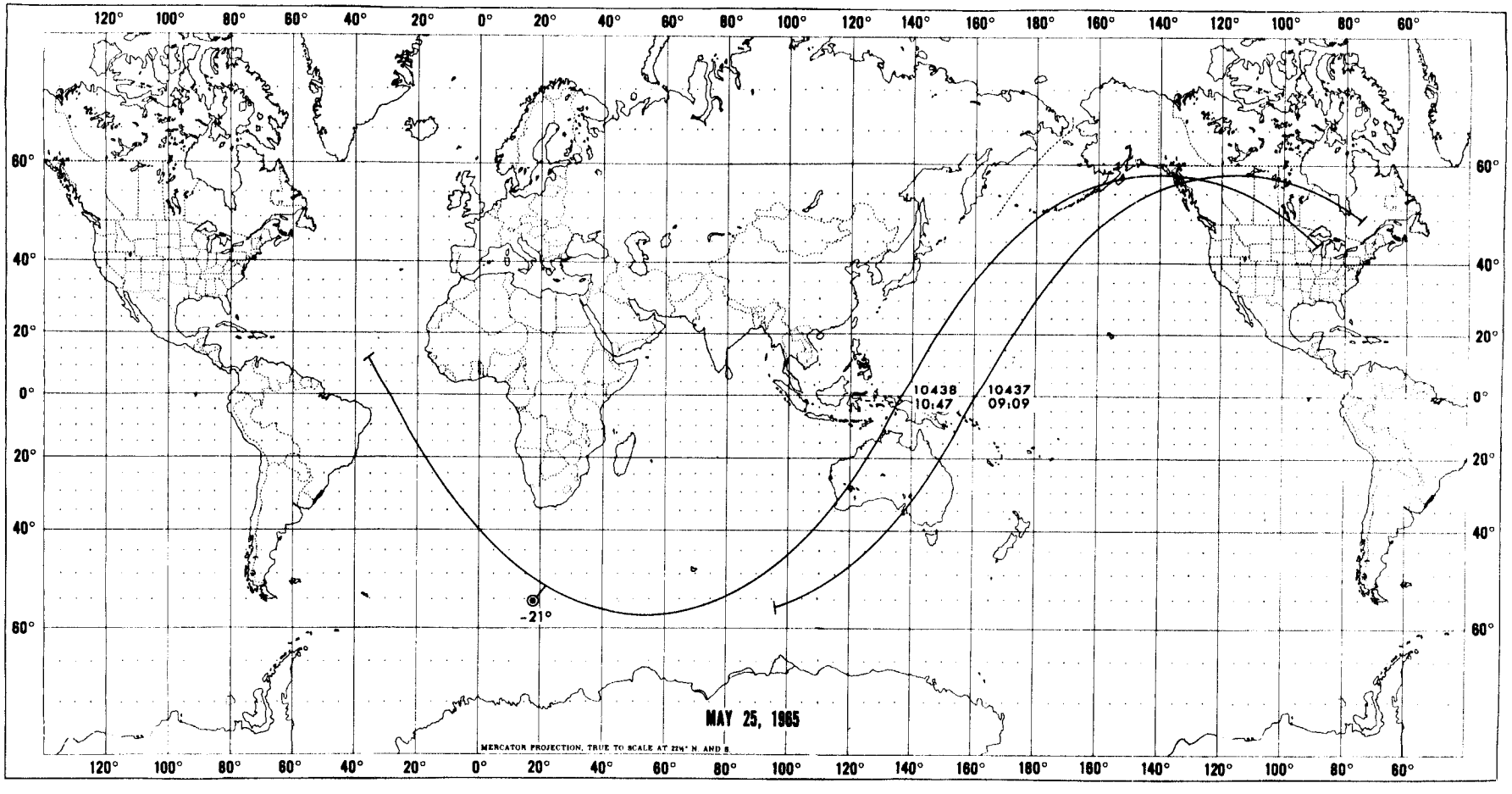
60°
40°
20°
0°
20°
40°
60°
10308
15:44
10307
14:07
-24°
MAY 16, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 180° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
10335
11.34
-25°
MAY 18, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
10365
12:17
-25°
MAY 20, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
10409
11:42
-22°
DIRECT SOLAR RADIATION INTERFERENCE IN
CHANNELS 3 AND 5; ORBITS 10409 - 10410
MAY 23, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
10424
12:03
-20°
MAY 24, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.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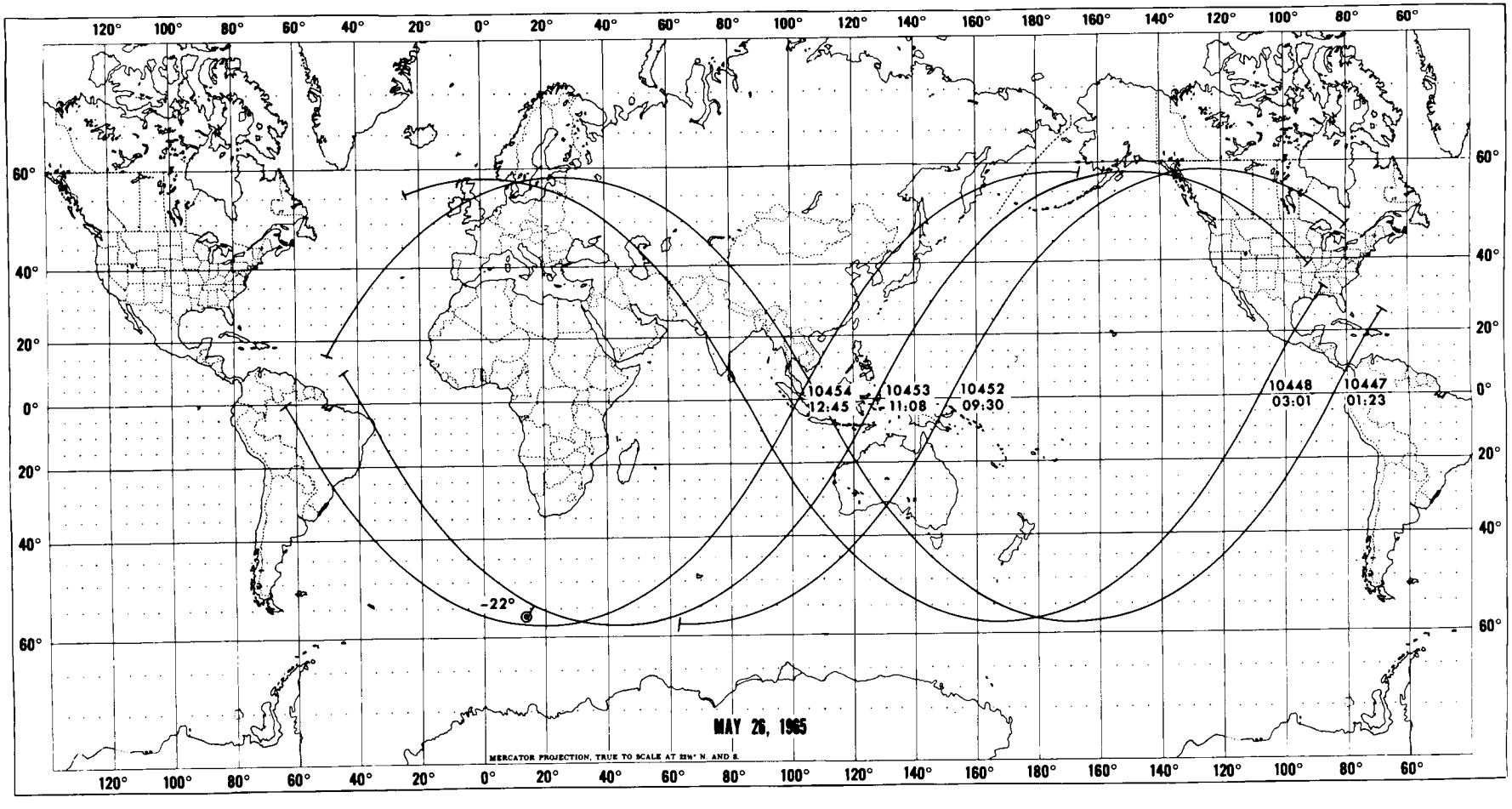
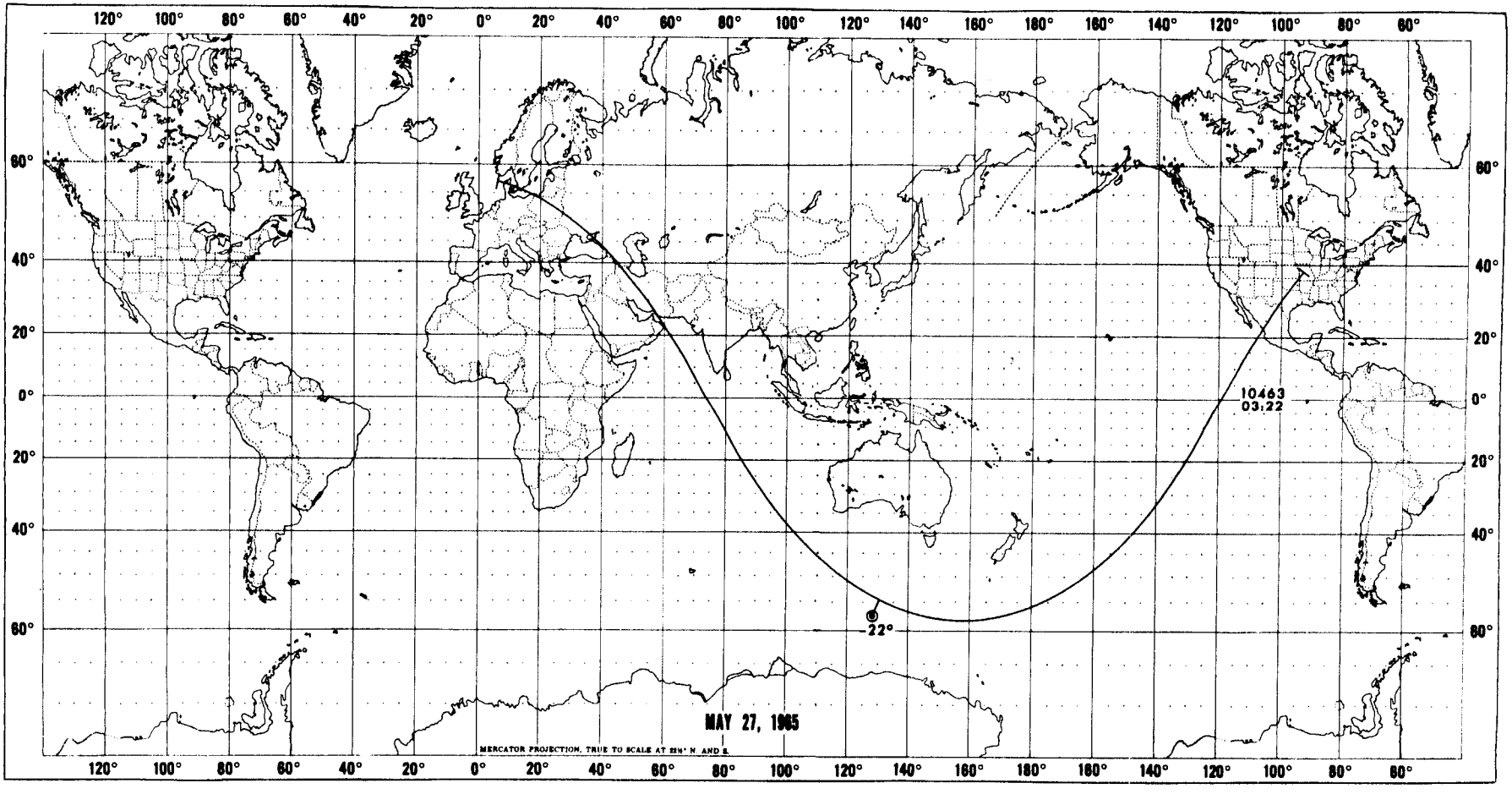
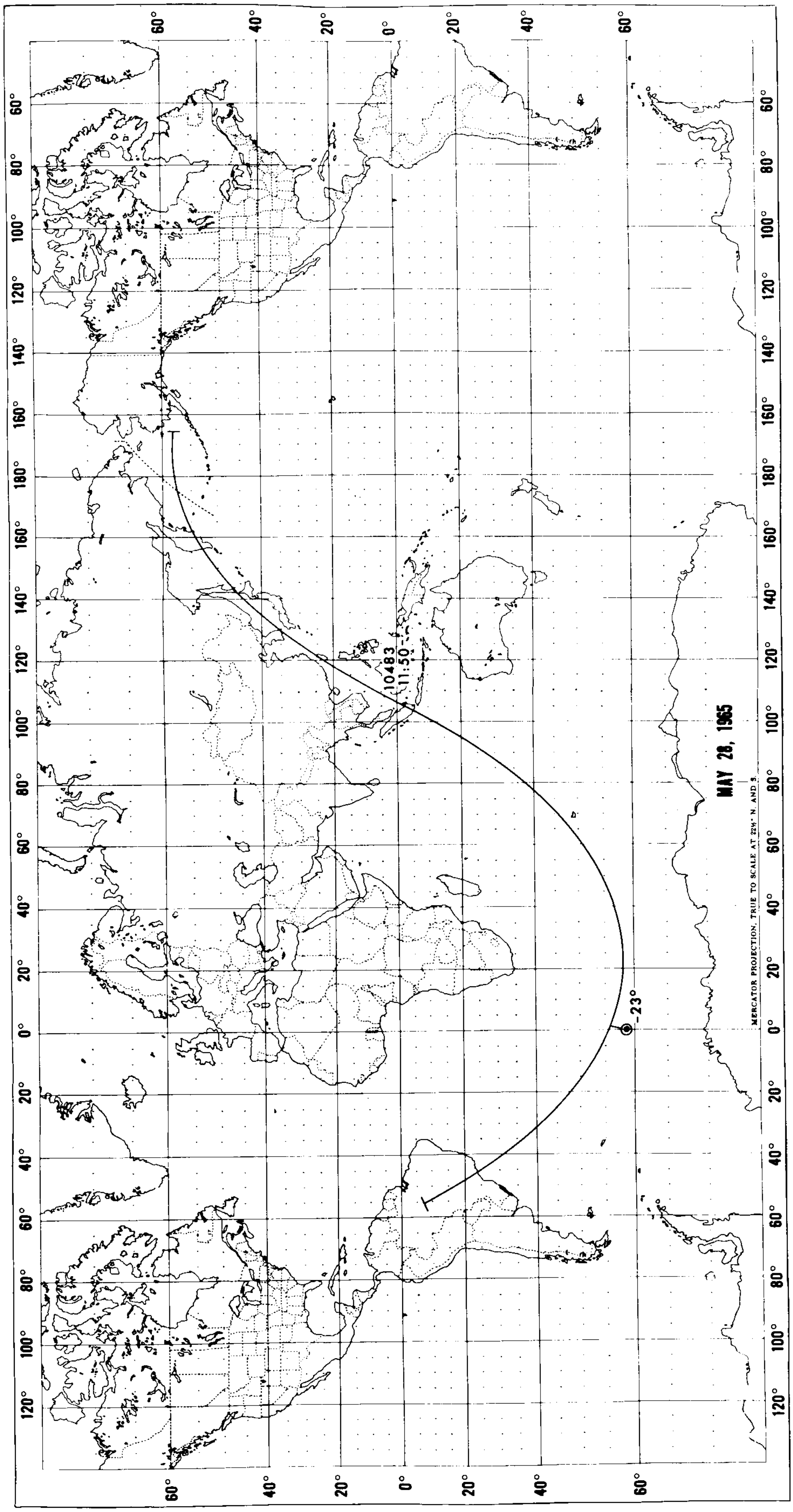
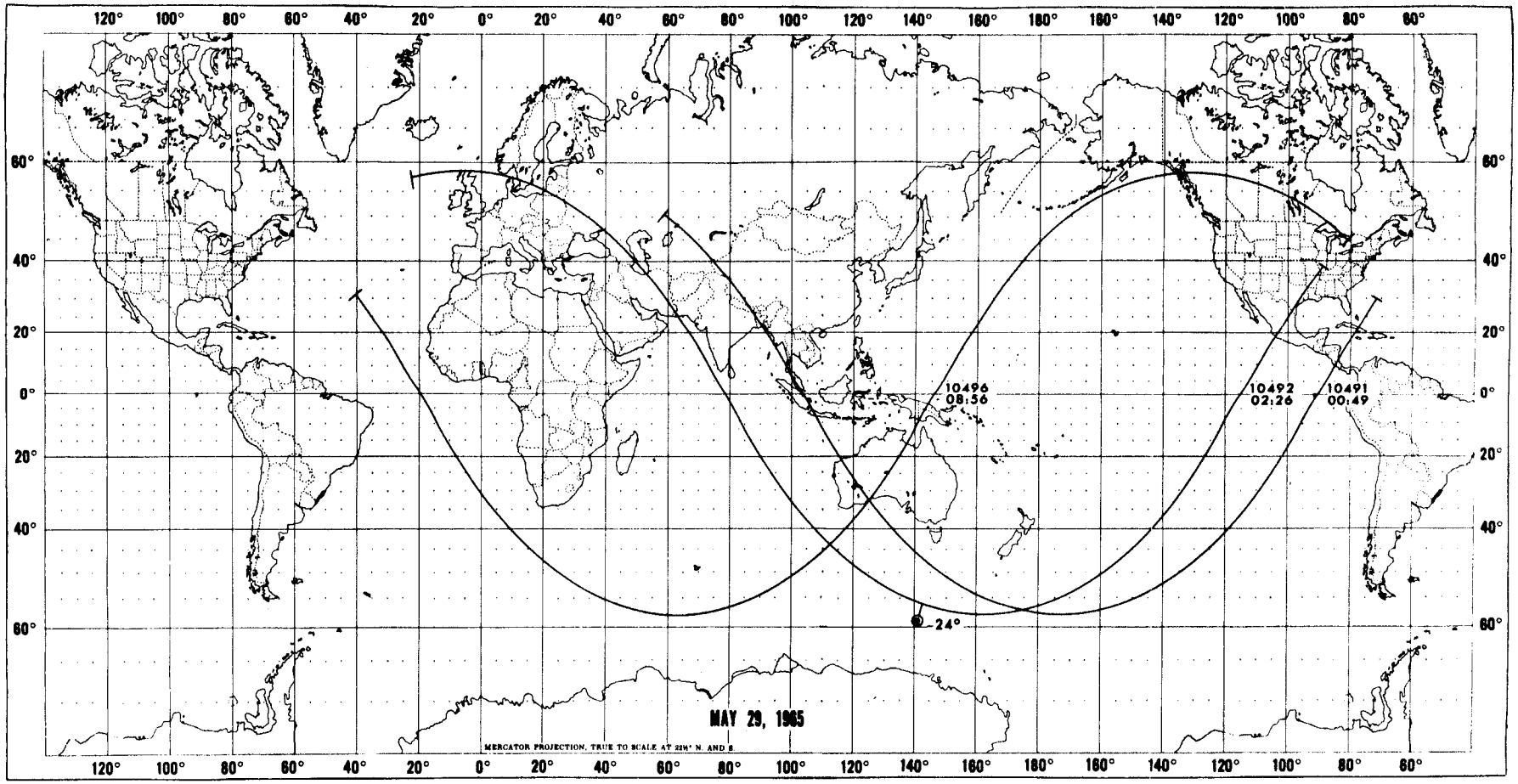
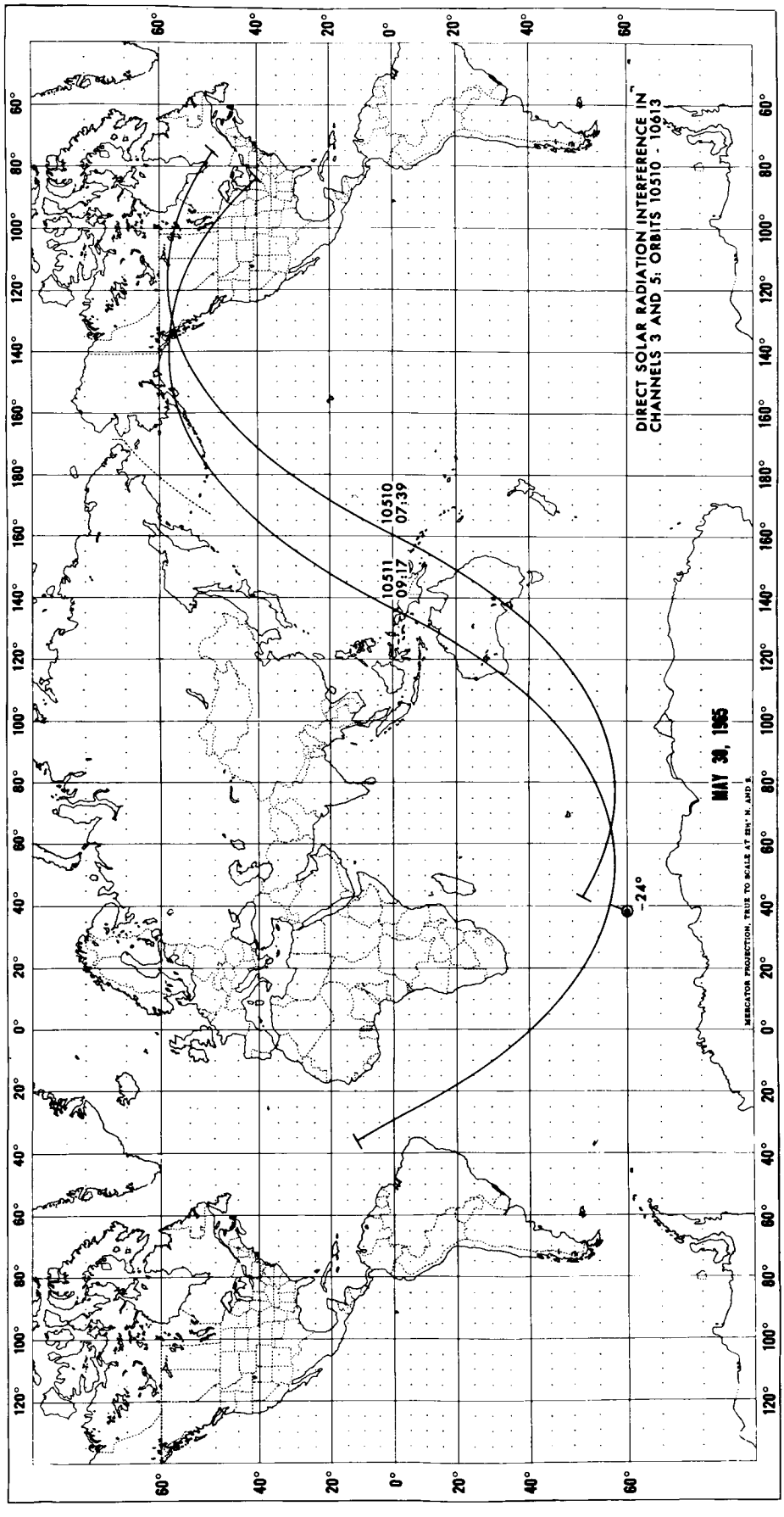
60°
40°
20°
0°
20°
40°
60°
10438
10:47
10437
09:09
-21°
MAY 25, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

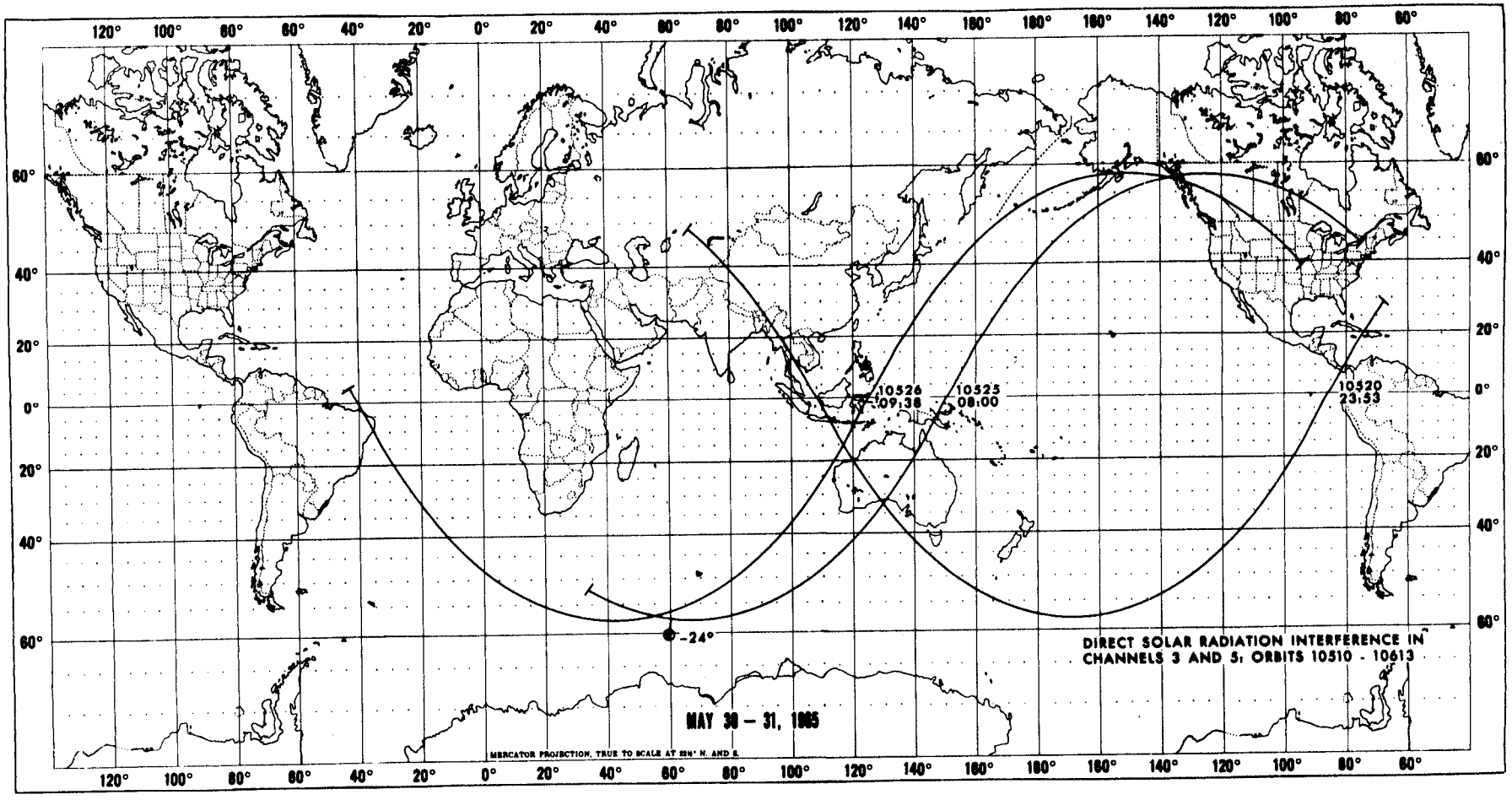

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
10454
12:45
10453
11:08
10452
09:30
10448
03:01
10447
01:23
-22°
MAY 26, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

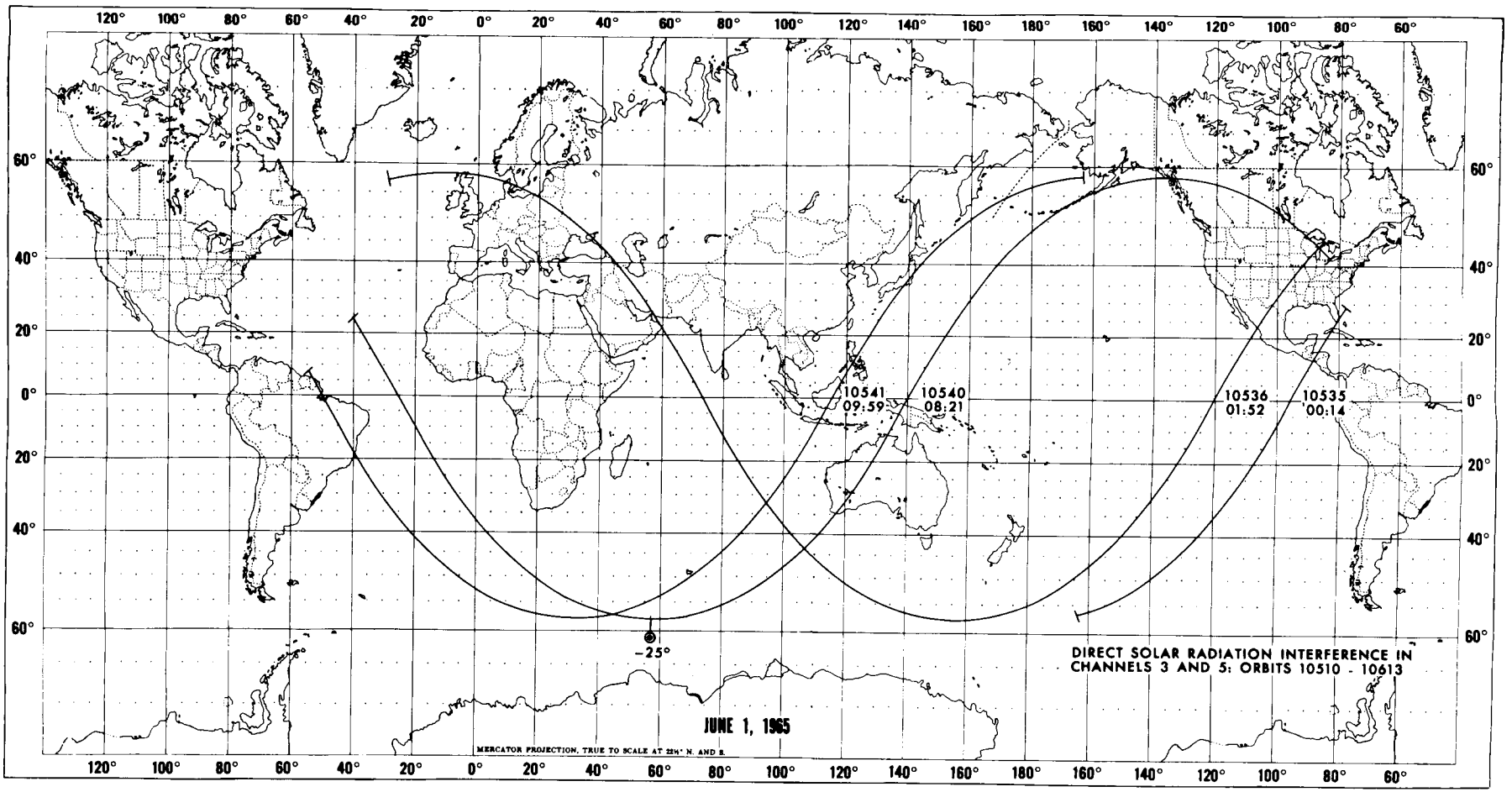

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
80°
40°
20°
0°
20°
40°
60°
10463
03:22
22°
MAY 27, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N AND S.

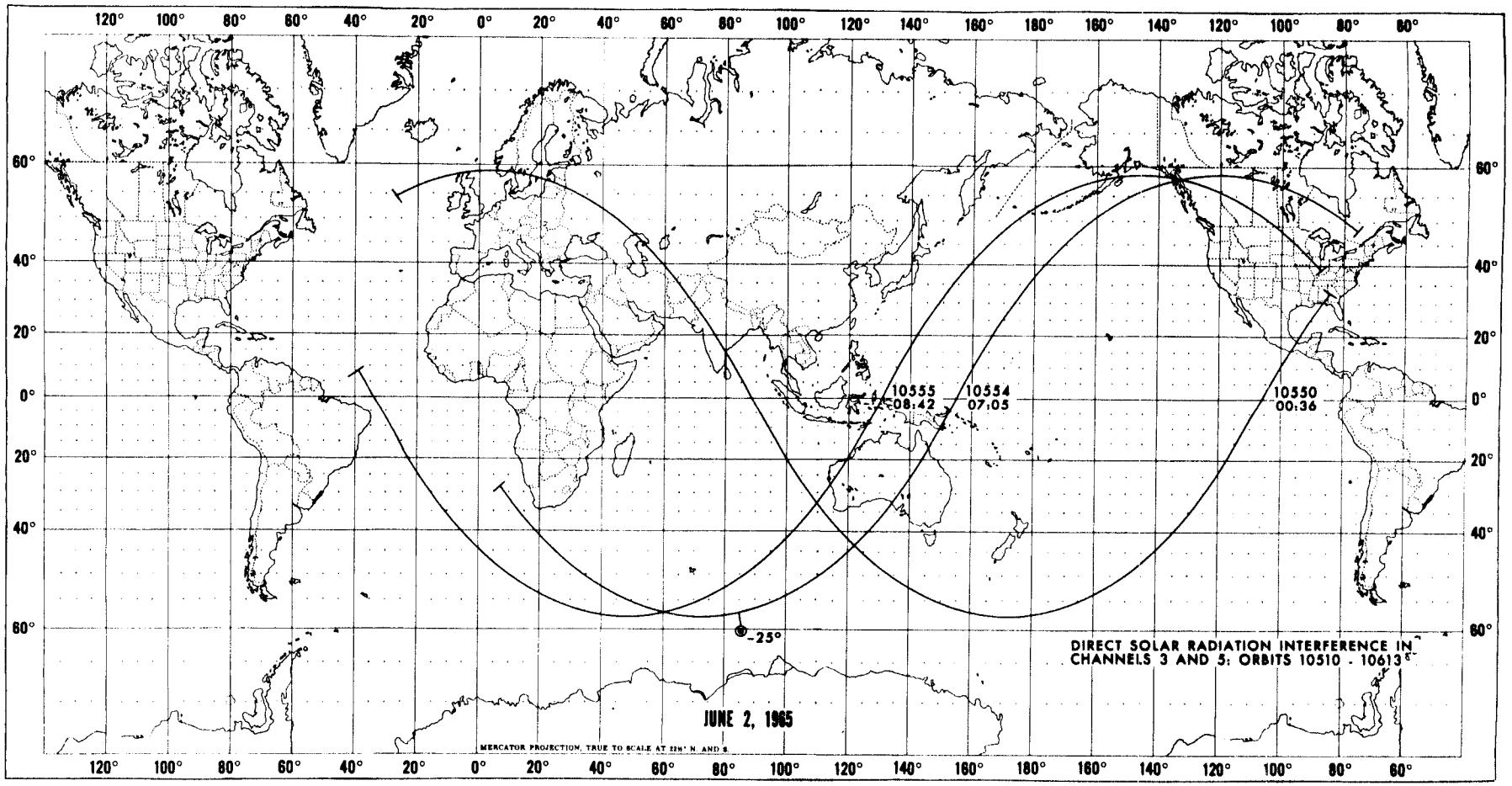

MAY 28, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.
10483
11:50
-23°

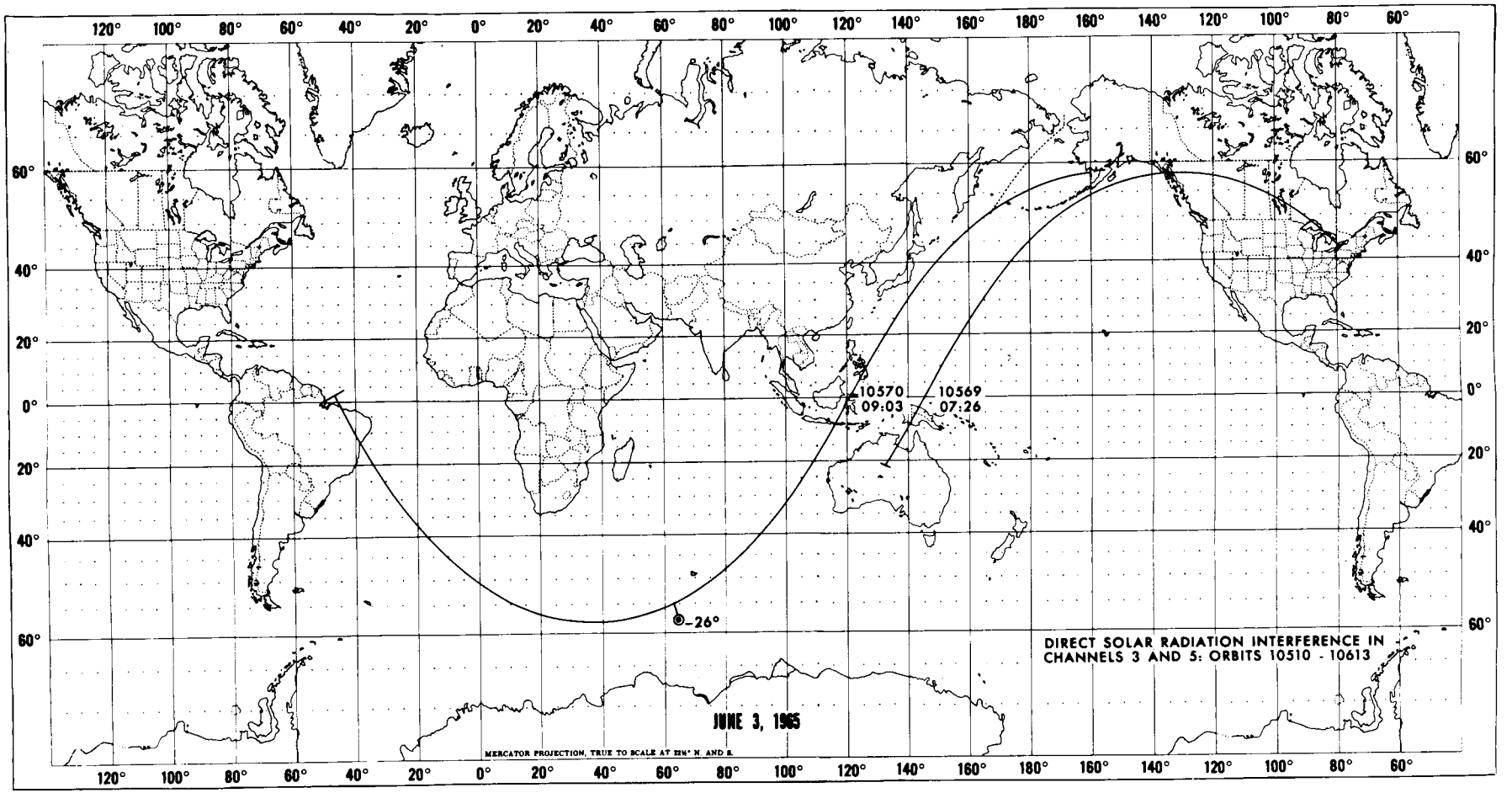

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
10496
08:56
10492
02:26
10491
00:49
24°
MAY 29, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S

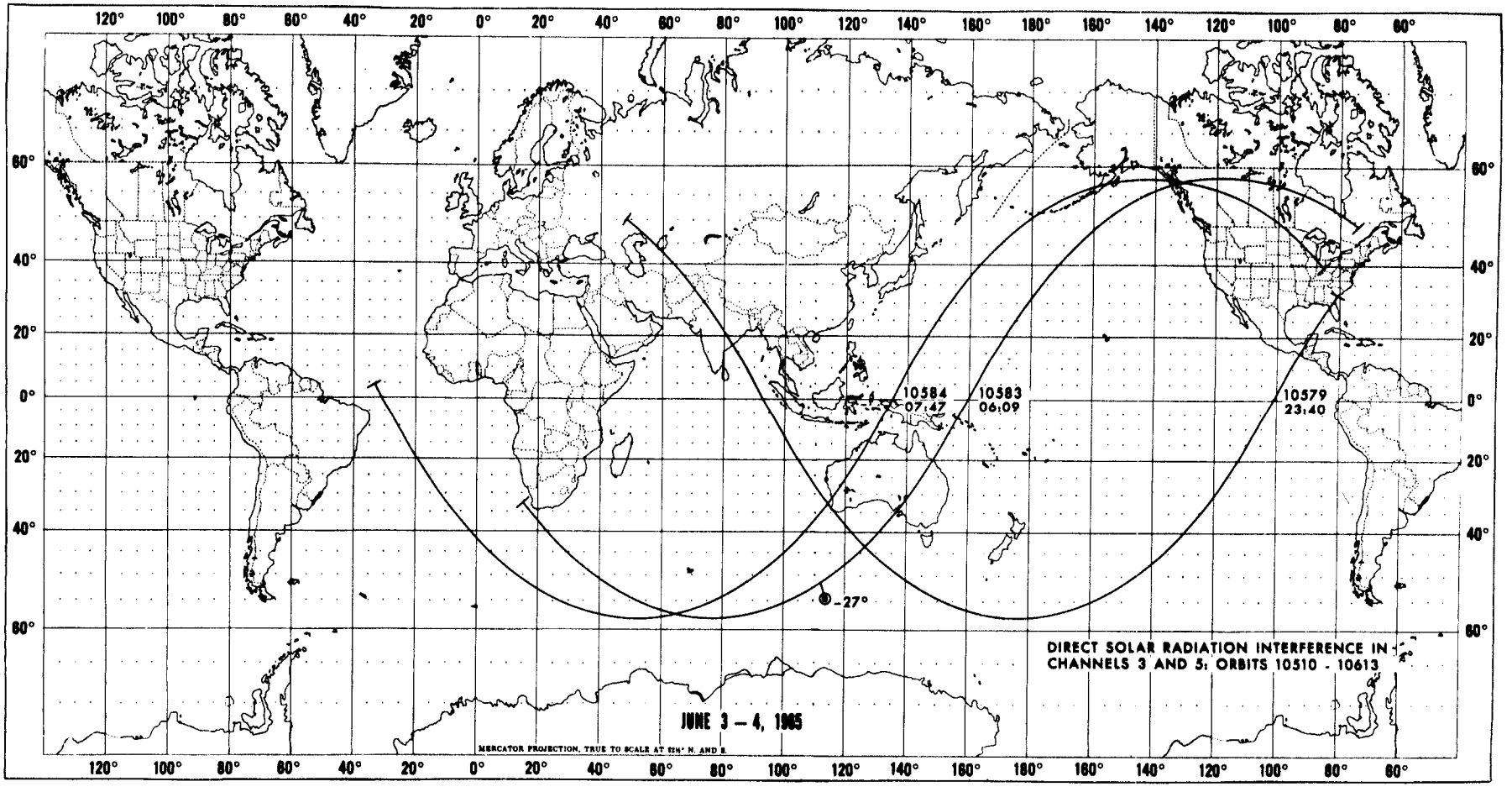

DIRECT SOLAR RADIATION INTERFERENCE IN
CHANNELS 3 AND 5, ORBITS 10510 - 10613
10510
07:39
10511
09:17
-24°
MAY 30, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 25° N. AND S.

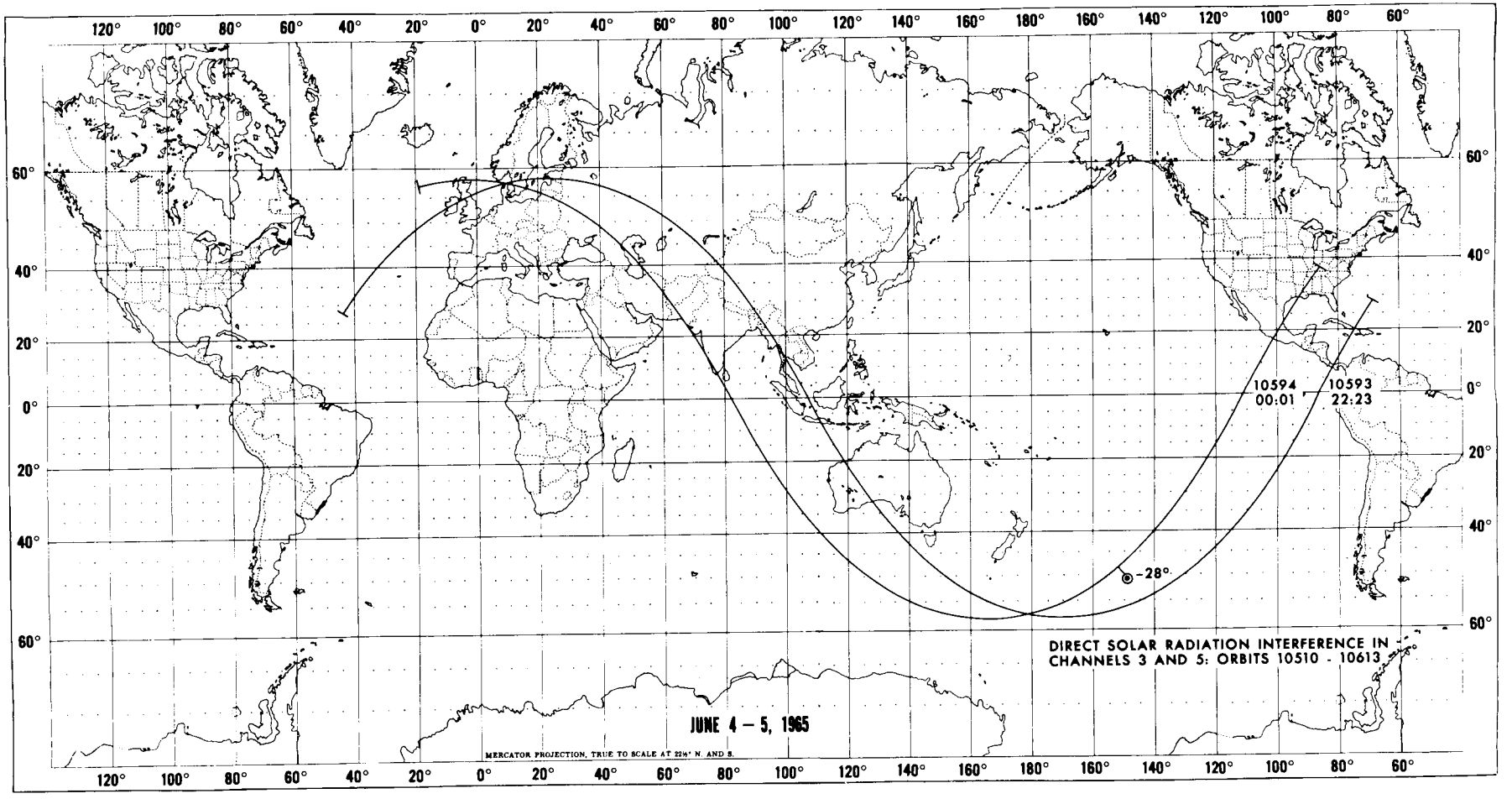

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
10526
09:38
10525
08:00
10520
23:53
-24°
DIRECT SOLAR RADIATION INTERFERENCE IN
CHANNELS 3 AND 5; ORBITS 10510 - 10613
MAY 30 – 31, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 25½° N. AND S.

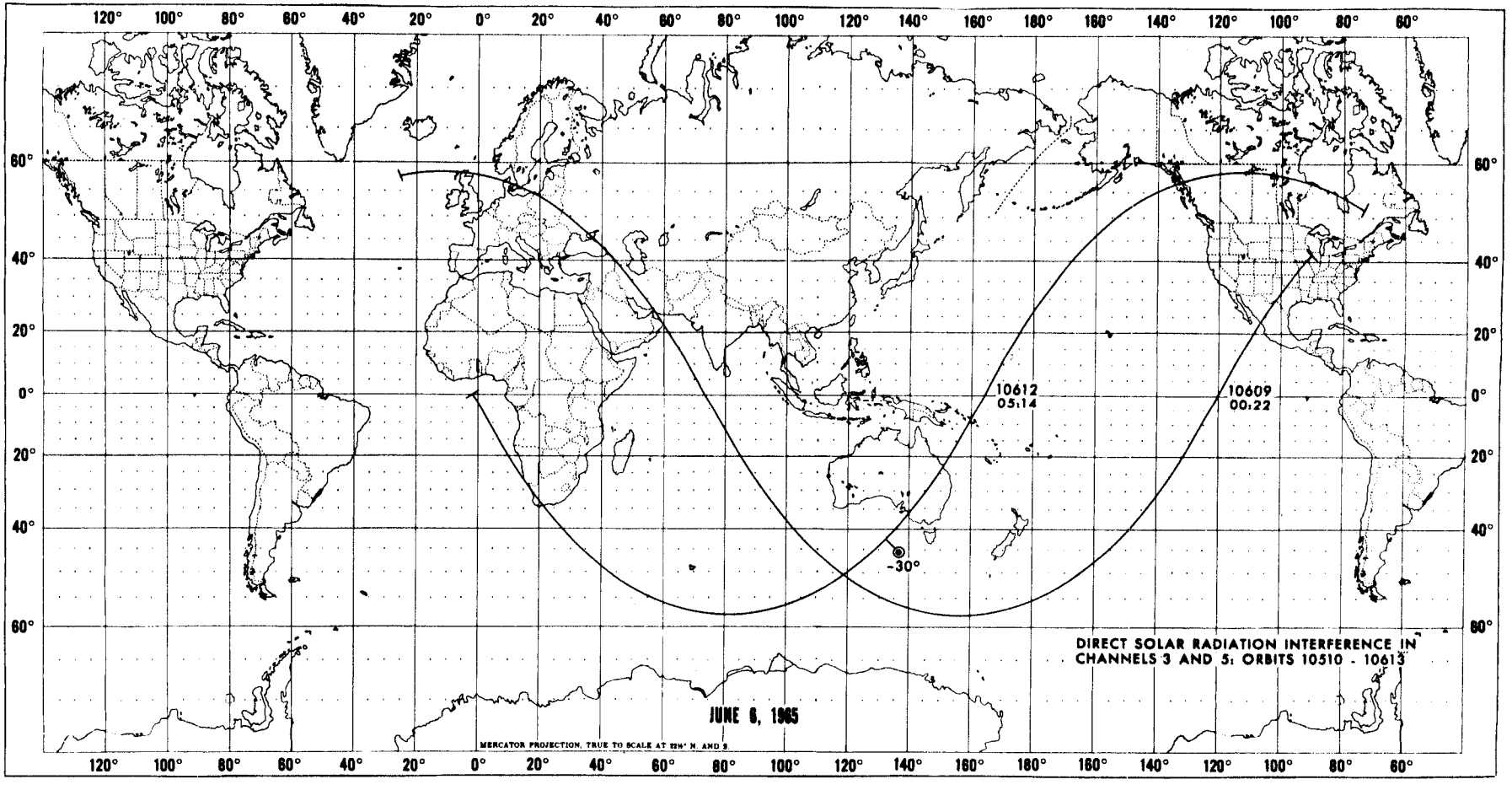

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
10541
09:59
10540
08:21
10536
01:52
10535
00:14
-25°
JUNE 1, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.
DIRECT SOLAR RADIATION INTERFERENCE IN
CHANNELS 3 AND 5: ORBITS 10510 - 10613

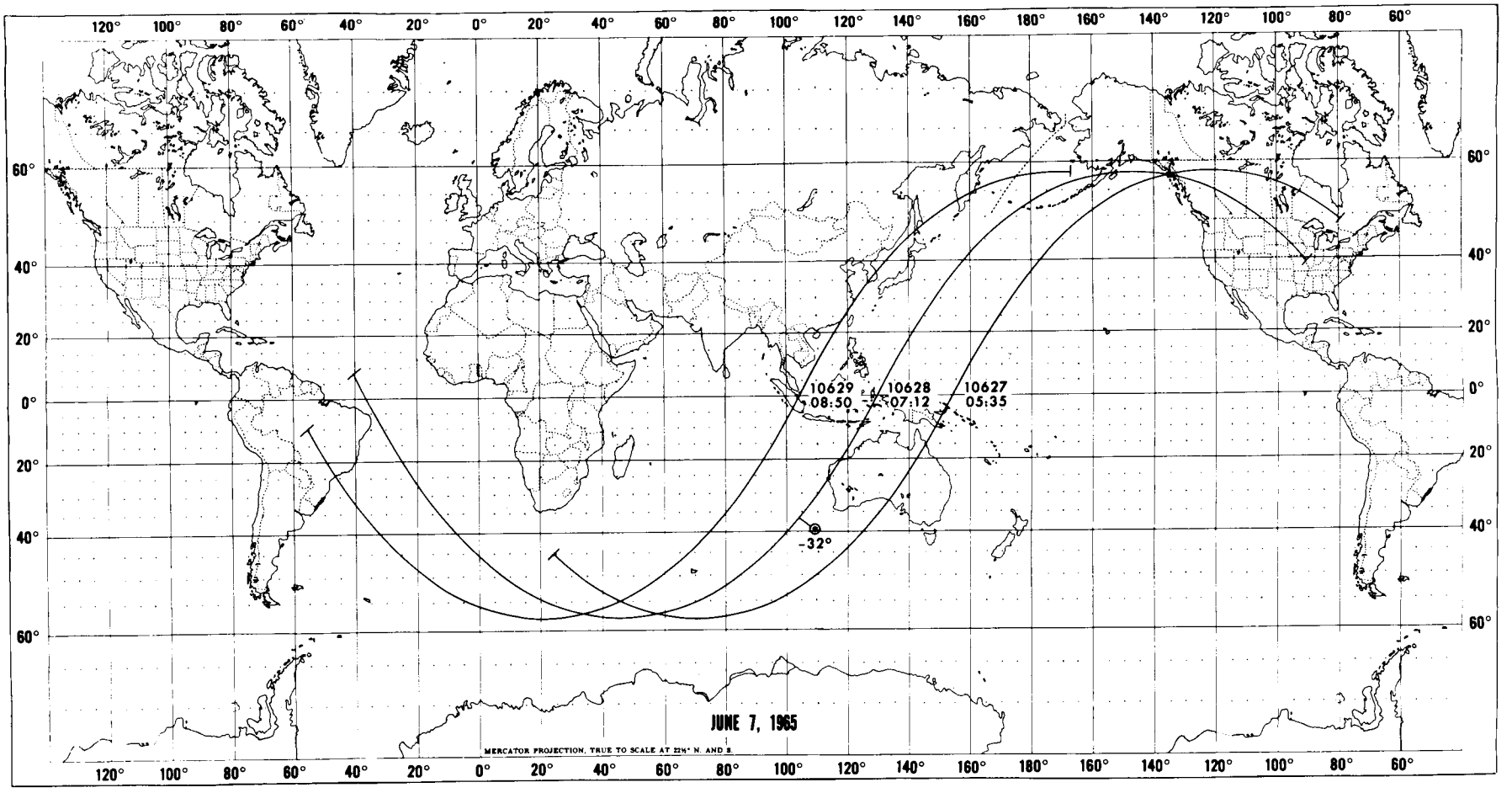

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
10555
08:42
10554
07:05
10550
00:36
-25°
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5: ORBITS 10510 - 10613
JUNE 2, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

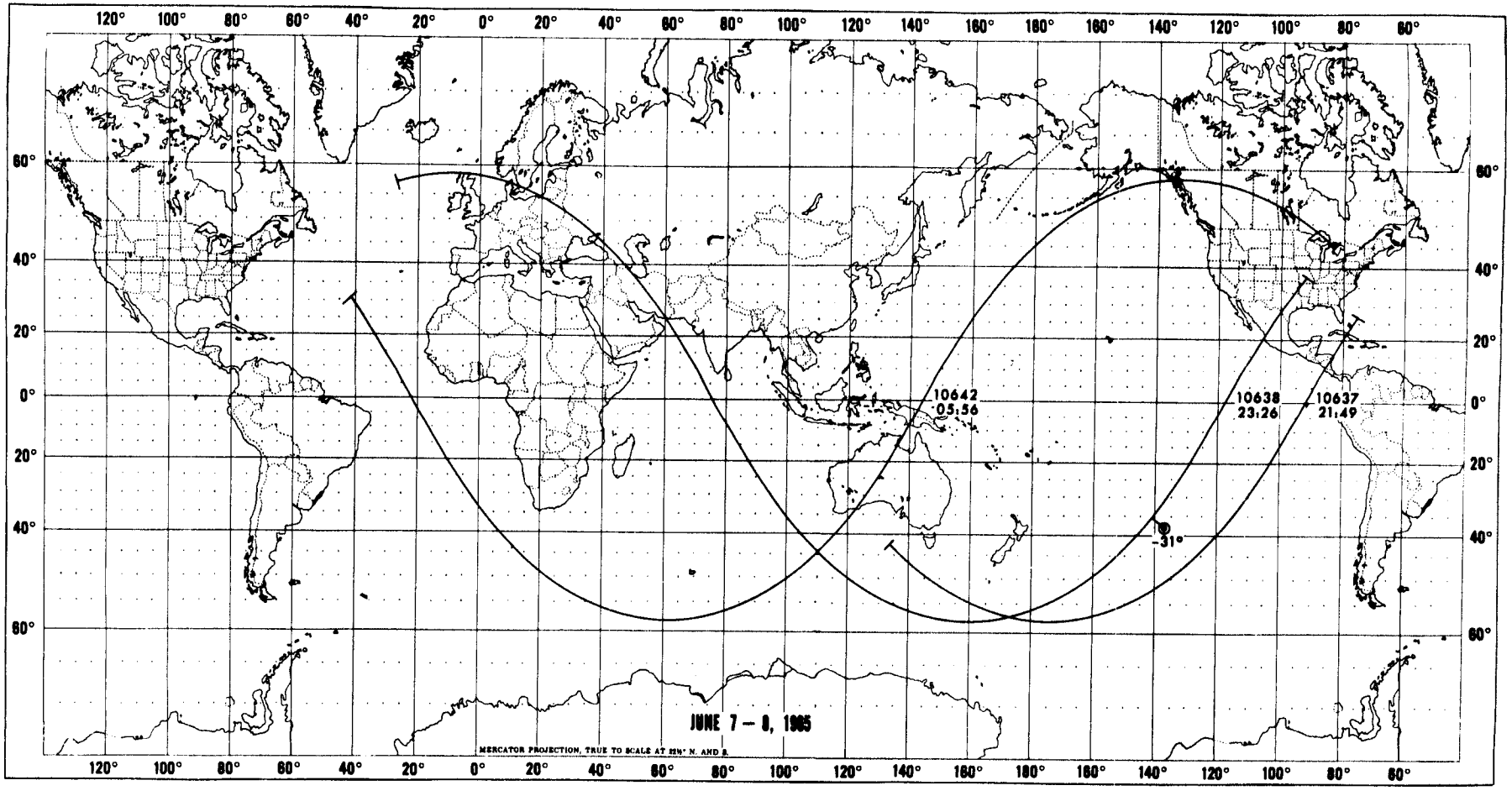

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
10570
09:03
10569
07:26
-26°
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5: ORBITS 10510 - 10613
JUNE 3, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 28° N. AND S.

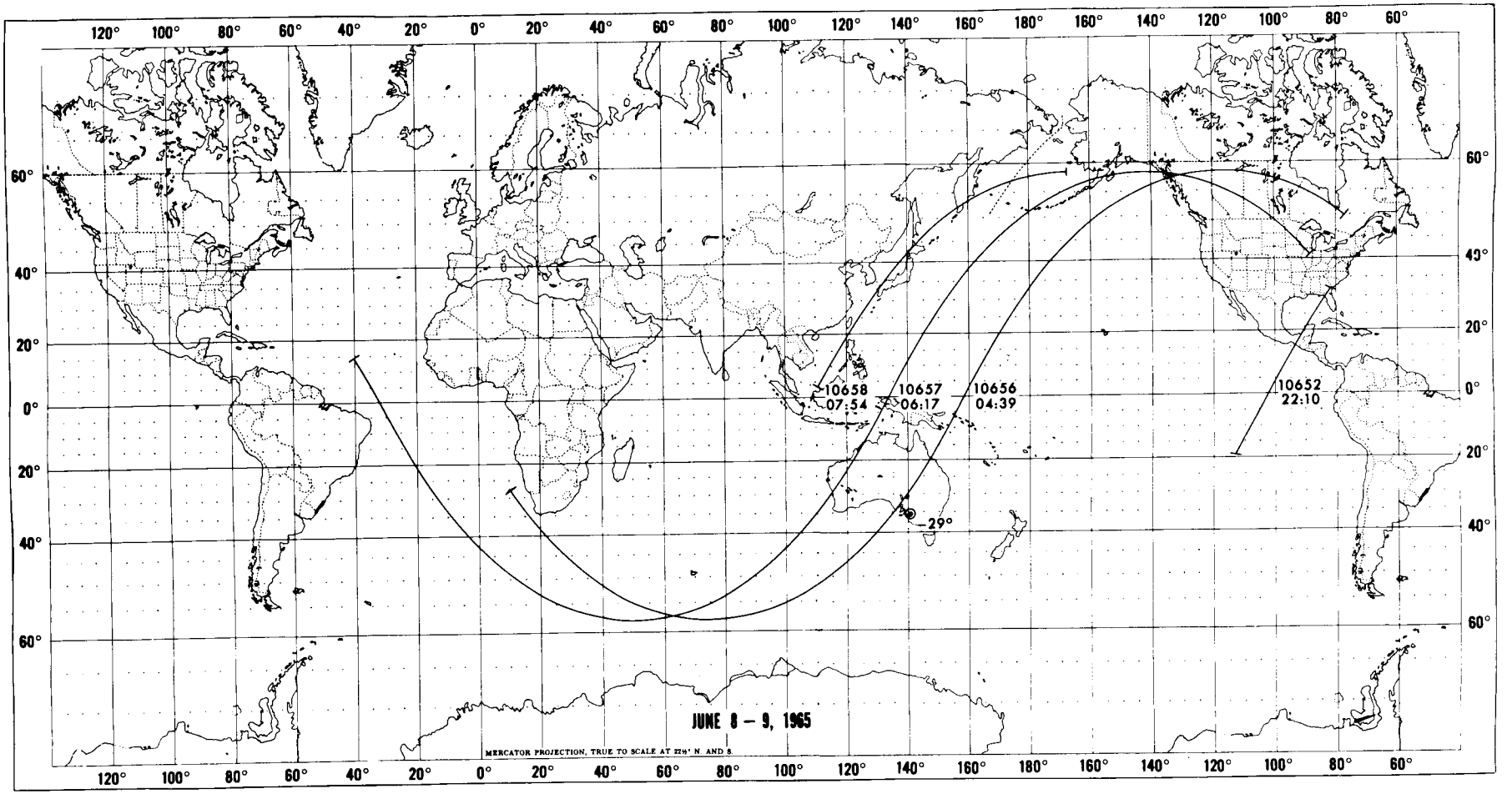

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
10584
07:47
10583
06:09
10579
23:40
-27°
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5; ORBITS 10510 - 10613
JUNE 3 – 4, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

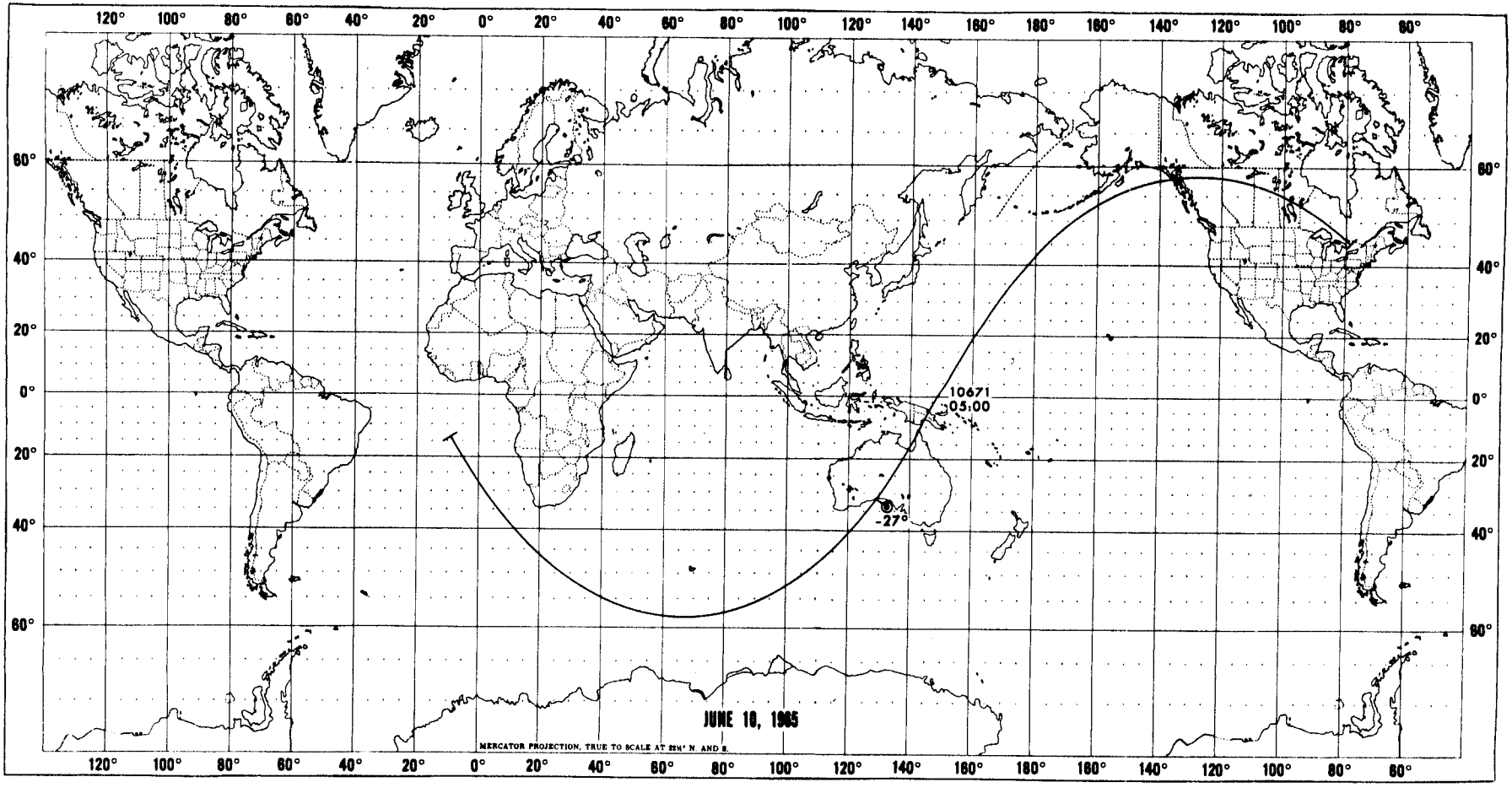

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
10594
00:01
10593
22:23
-28°
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5: ORBITS 10510 - 10613
JUNE 4 – 5, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

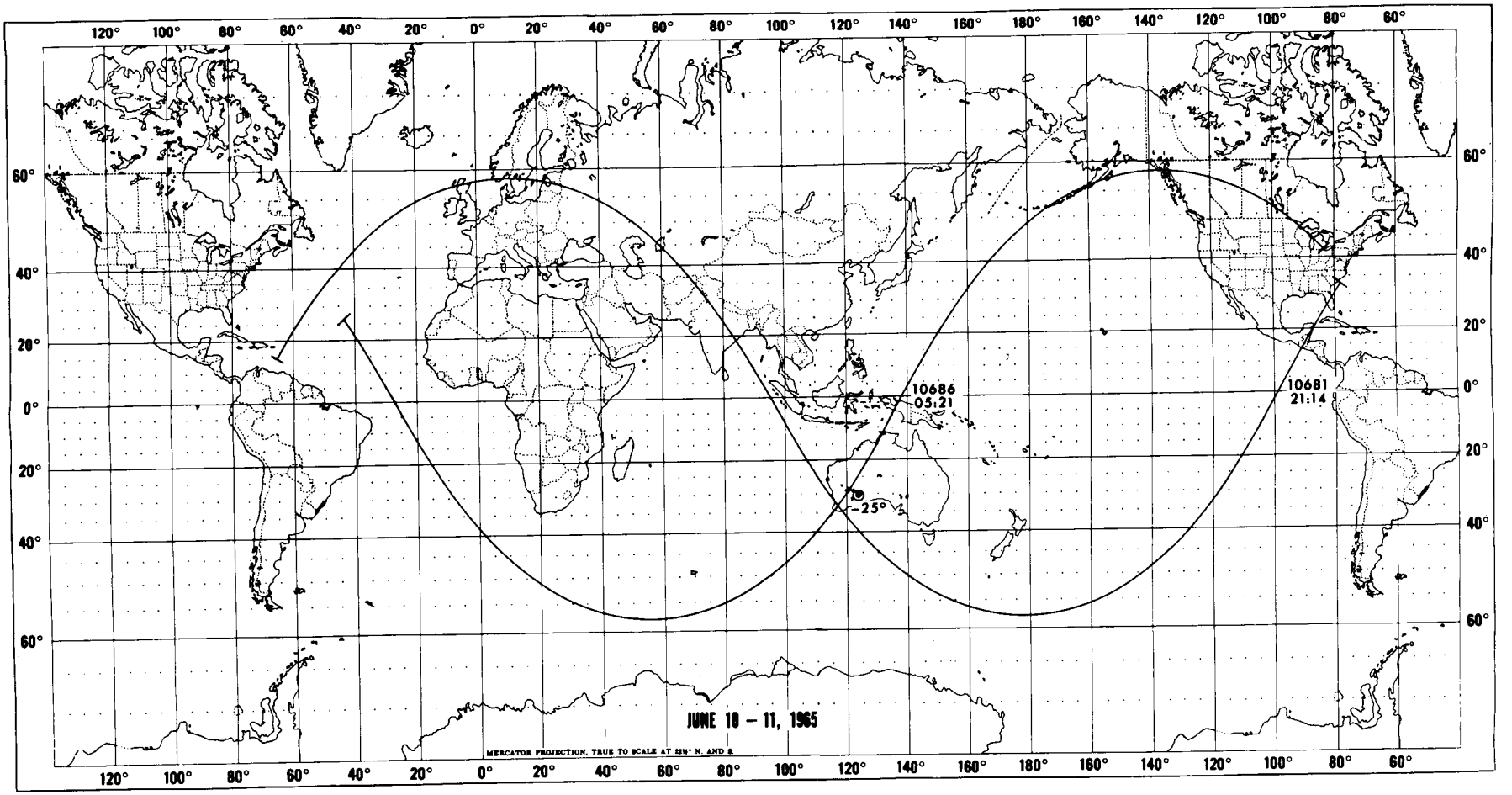

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
10612
05:14
10609
00:22
-30°
DIRECT SOLAR RADIATION INTERFERENCE IN
CHANNELS 3 AND 5: ORBITS 10510 - 10613
JUNE 6, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

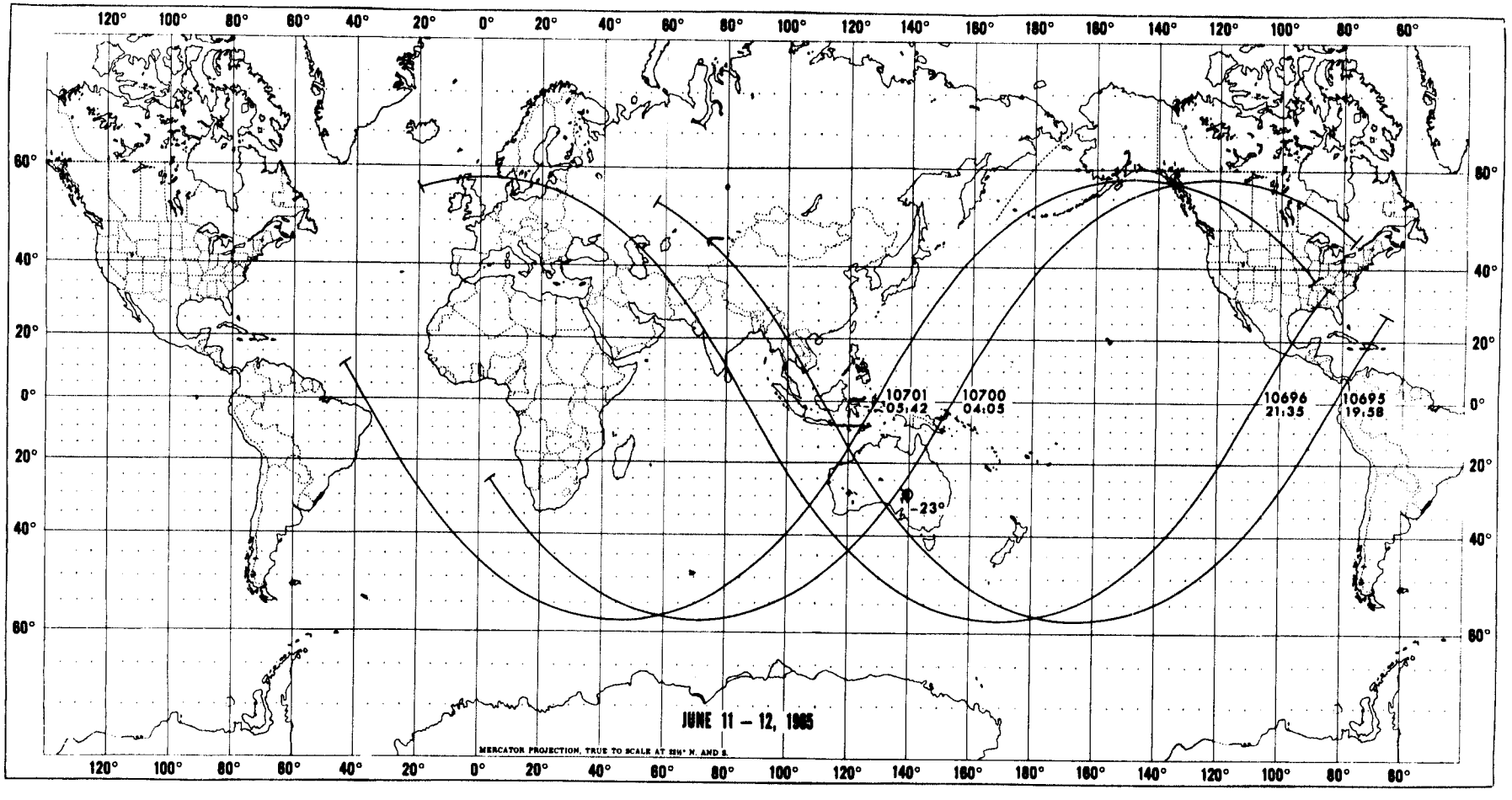

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
10629
08:50
10628
07:12
10627
05:35
-32°
JUNE 7, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

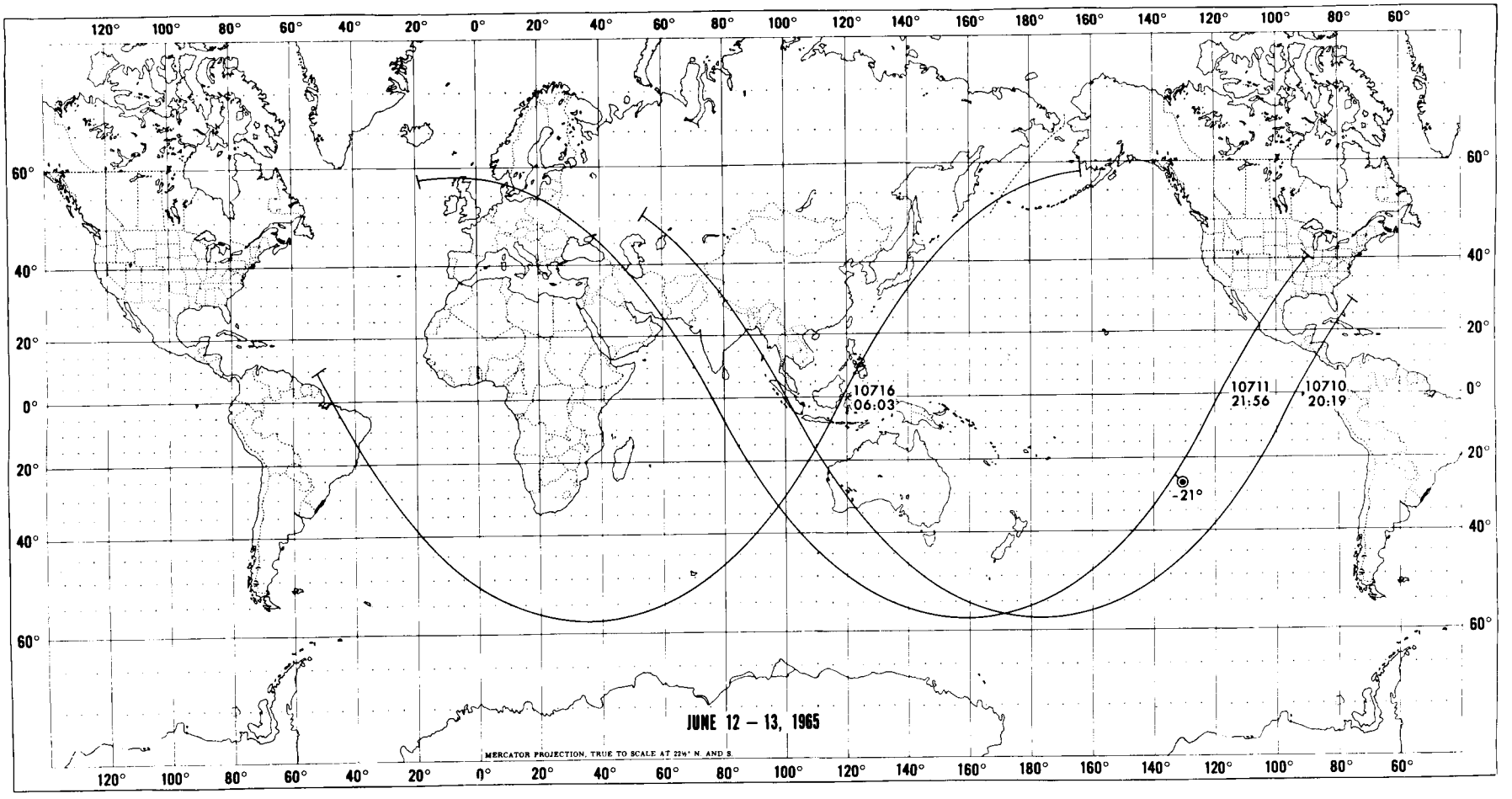

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
10642
05:56
10638
23:26
10637
21:49
-31°
JUNE 7 – 8, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

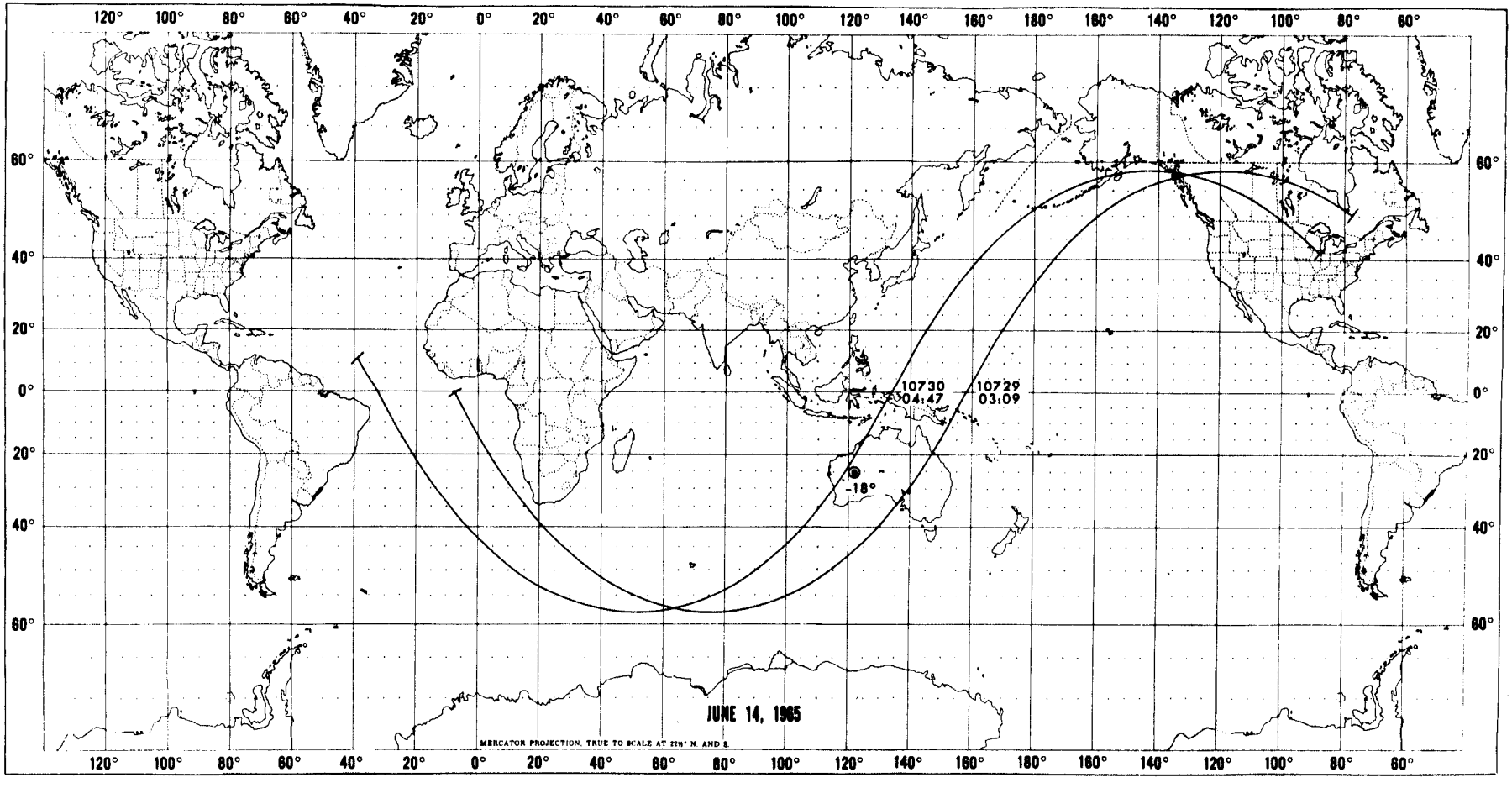

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
10658
07:54
10657
06:17
10656
04:39
10652
22:10
-29°
JUNE 8 – 9, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N AND S

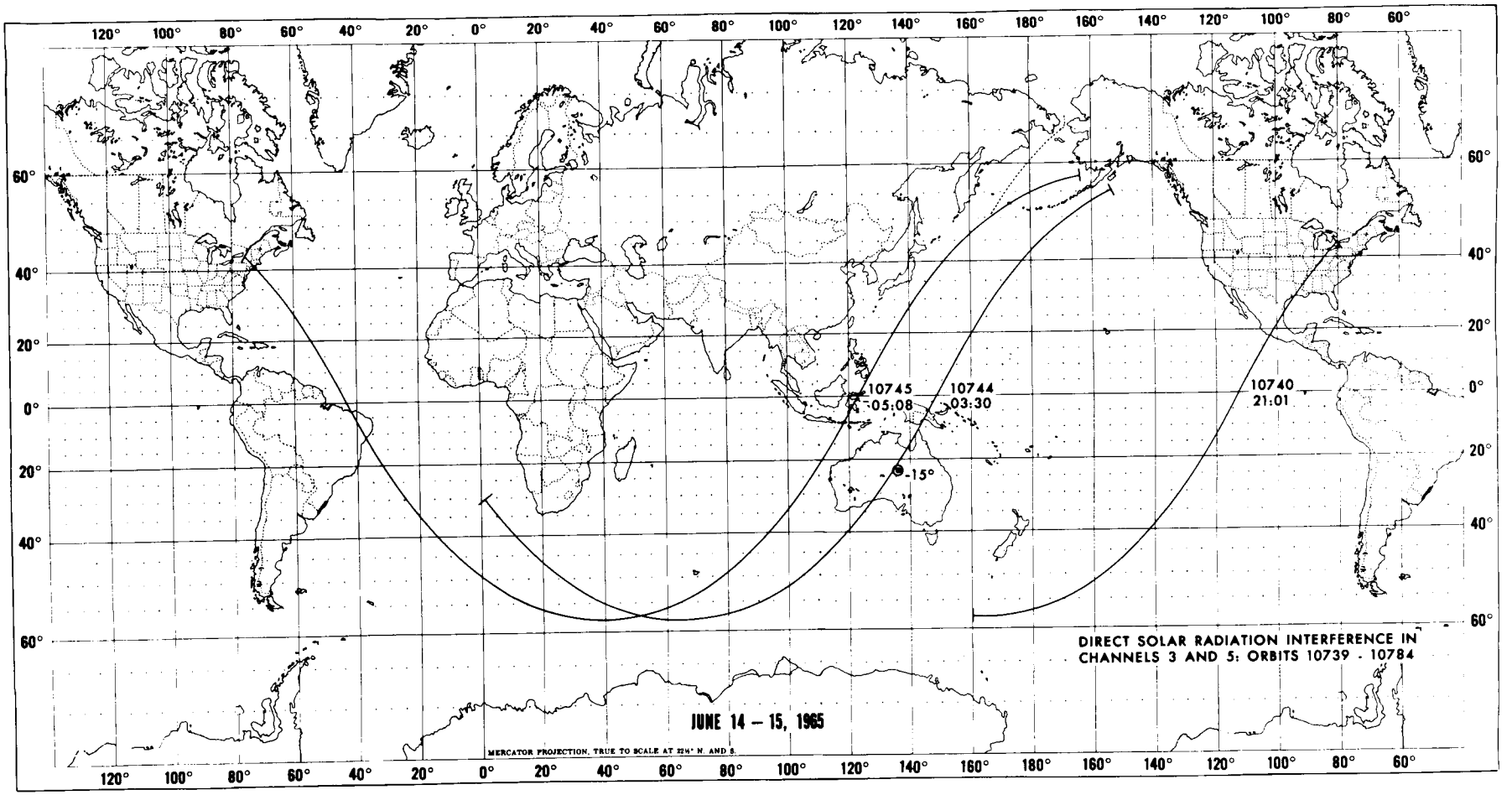

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
10671
05:00
-27°
JUNE 18, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 25½° N. AND S.

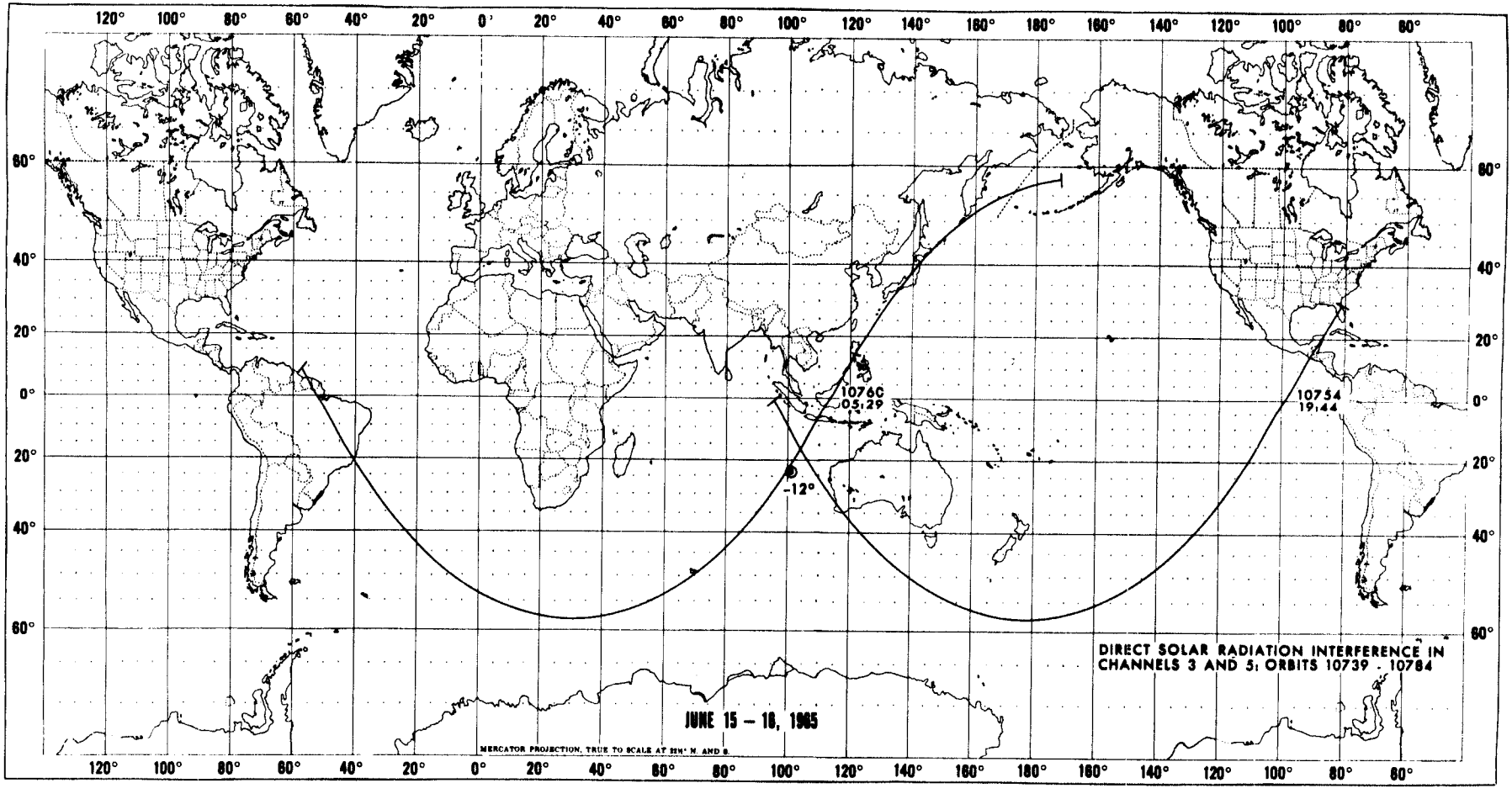

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
10686
05:21
10681
21:14
-25°
JUNE 10 – 11, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 25½° N. AND S.

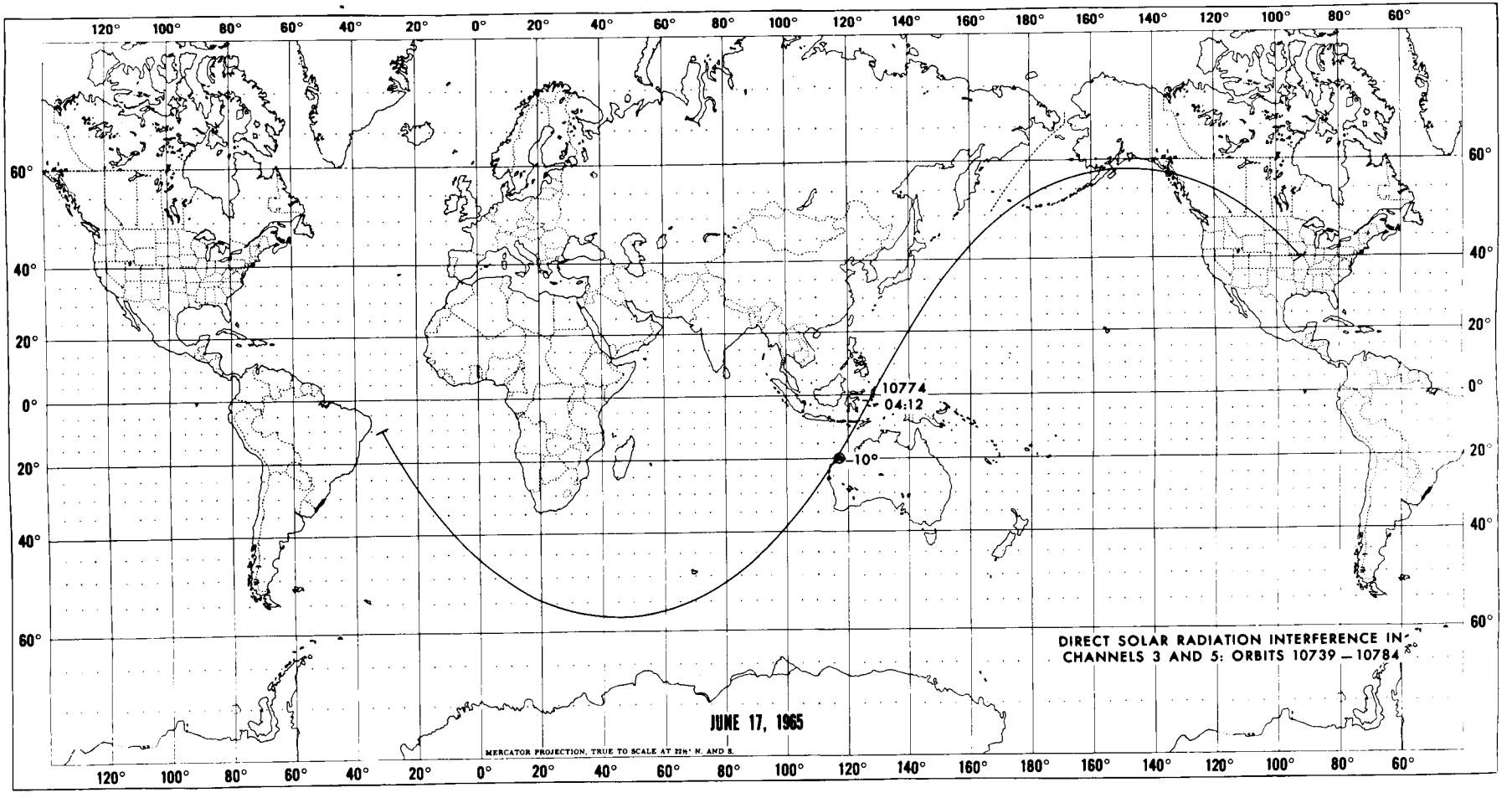

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
10701
05:42
10700
04:05
10696
21:35
10695
19:58
-23°
JUNE 11 – 12, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 25½° N. AND S.

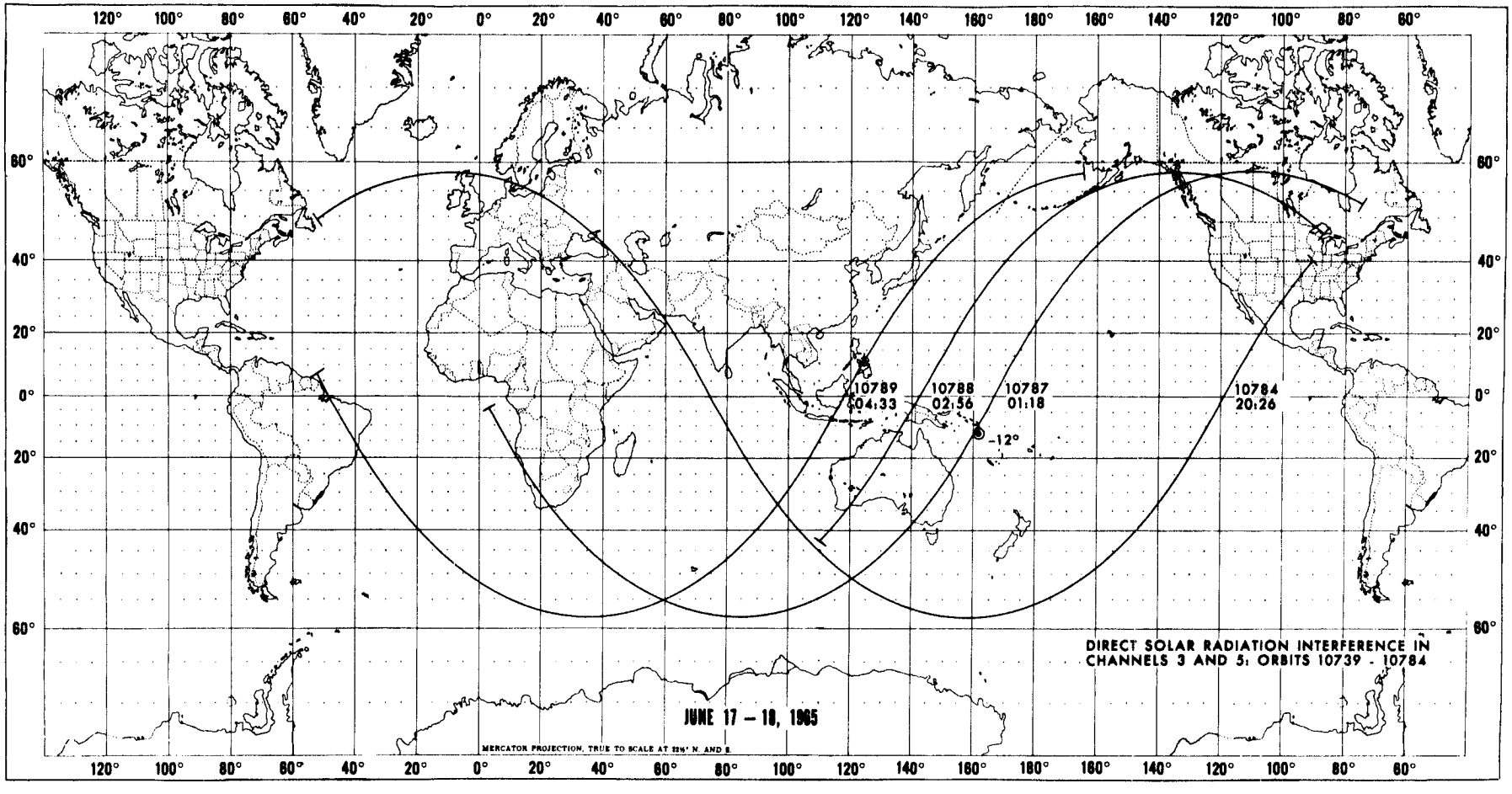

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
10716
06:03
10711
21:56
10710
20:19
-21°
JUNE 12 – 13, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

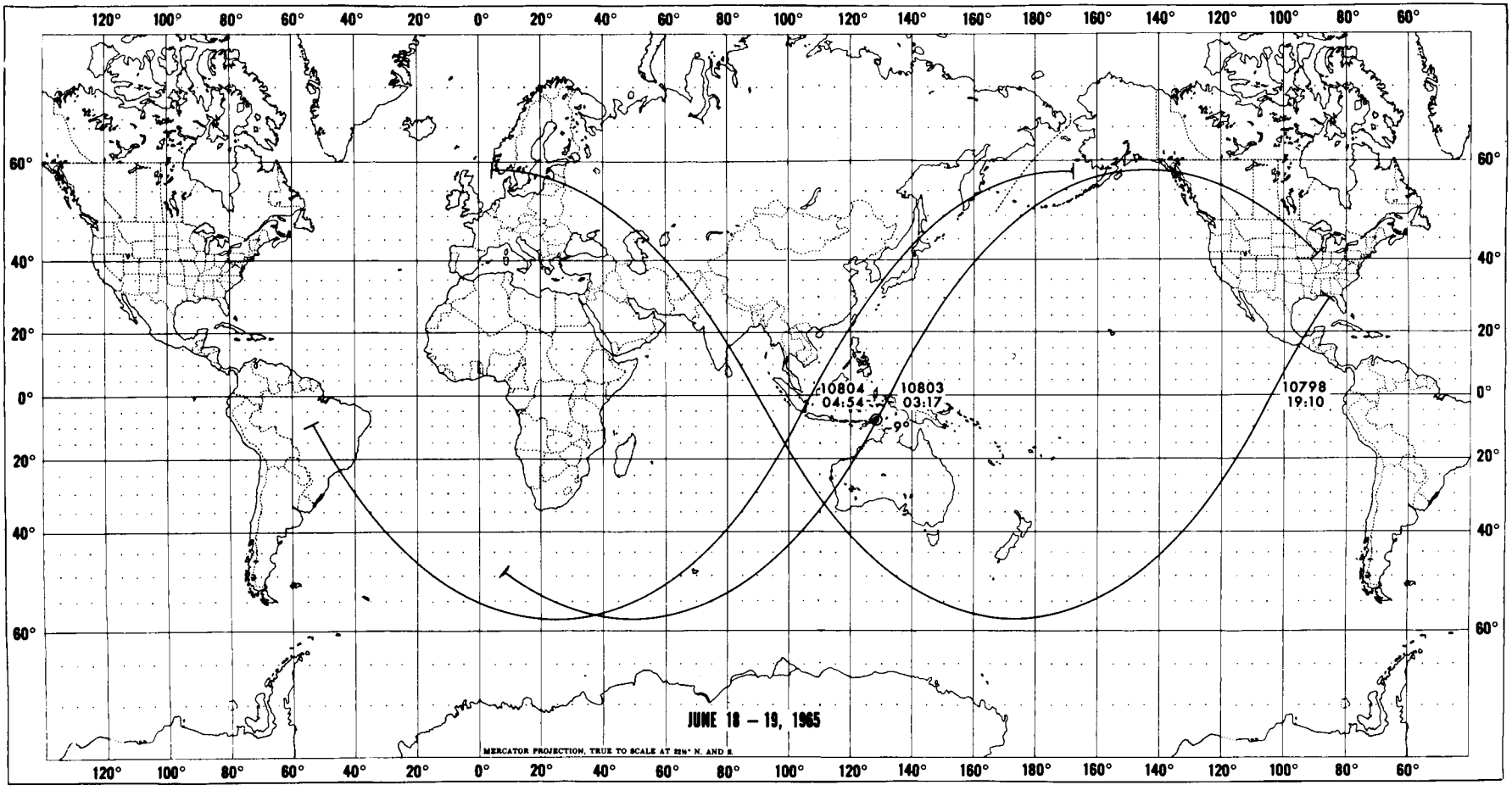

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
10730
04:47
10729
03:09
-18°
JUNE 14, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.

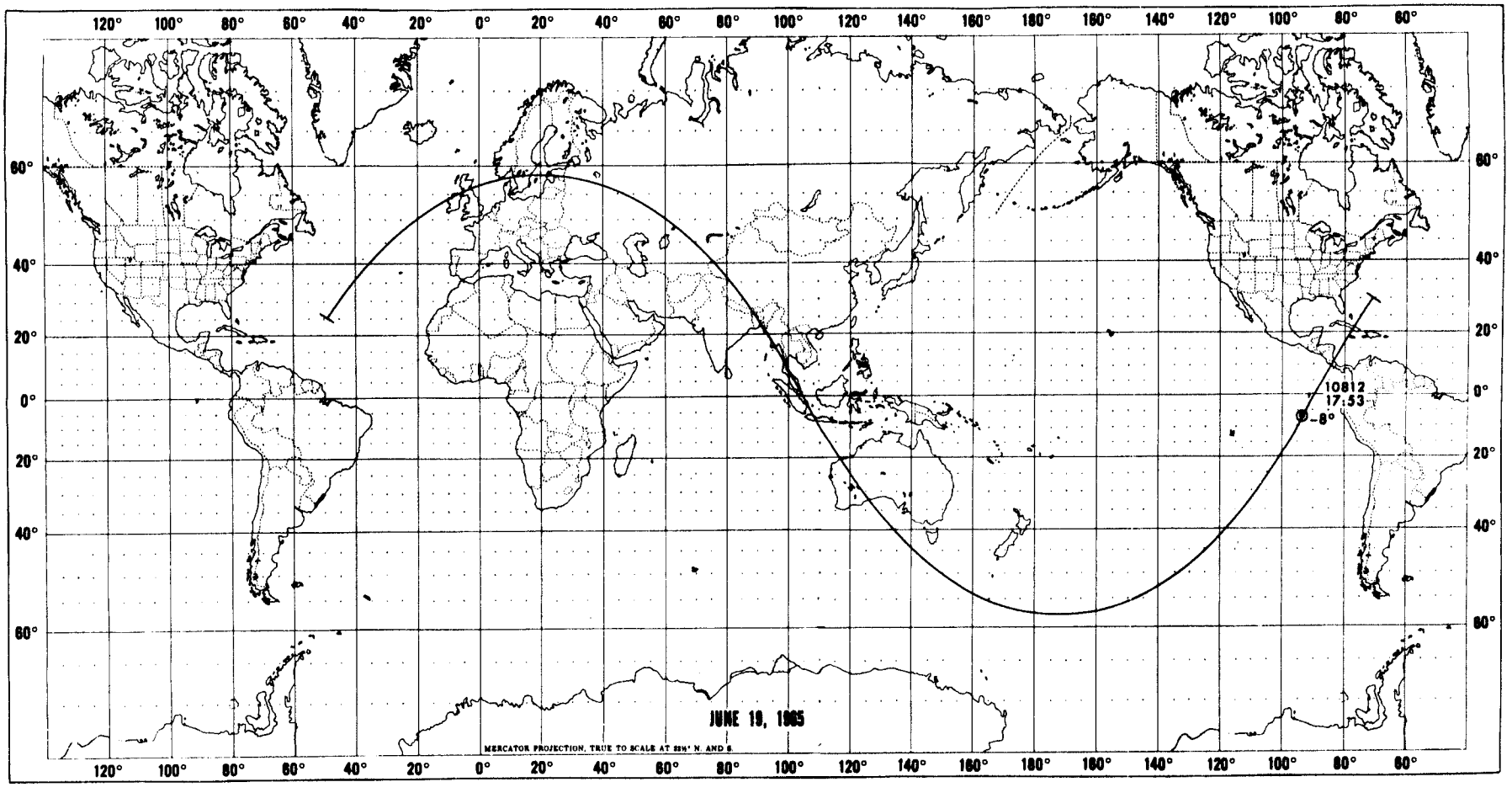

120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
10745
05:08
10744
03:30
10740
21:01
15°
DIRECT SOLAR RADIATION INTERFERENCE IN
CHANNELS 3 AND 5: ORBITS 10739 - 10784
JUNE 14 – 15, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.


10760
05:29
10754
19:44
-12°
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5; ORBITS 10739 - 10784
JUNE 15 – 16, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 30° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
10774
04:12
10°
DIRECT SOLAR RADIATION INTERFERENCE IN CHANNELS 3 AND 5: ORBITS 10739 – 10784
JUNE 17, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
10789
04:33
10788
02:56
10787
01:18
10784
20:26
-12°
DIRECT SOLAR RADIATION INTERFERENCE IN
CHANNELS 3 AND 5; ORBITS 10739 - 10784
JUNE 17 – 18, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
10804
04:54
10803
03:17
10798
19:10
JUNE 18 – 19, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 28½° N. AND S.


120° 100° 80° 60° 40° 20° 0° 20° 40° 60° 80° 100° 120° 140° 160° 180° 160° 140° 120° 100° 80° 60°
60°
40°
20°
0°
20°
40°
60°
10812
17:53
-8°
JUNE 19, 1965
MERCATOR PROJECTION, TRUE TO SCALE AT 28½° N. AND S.